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# BROWN UNIVERSITY

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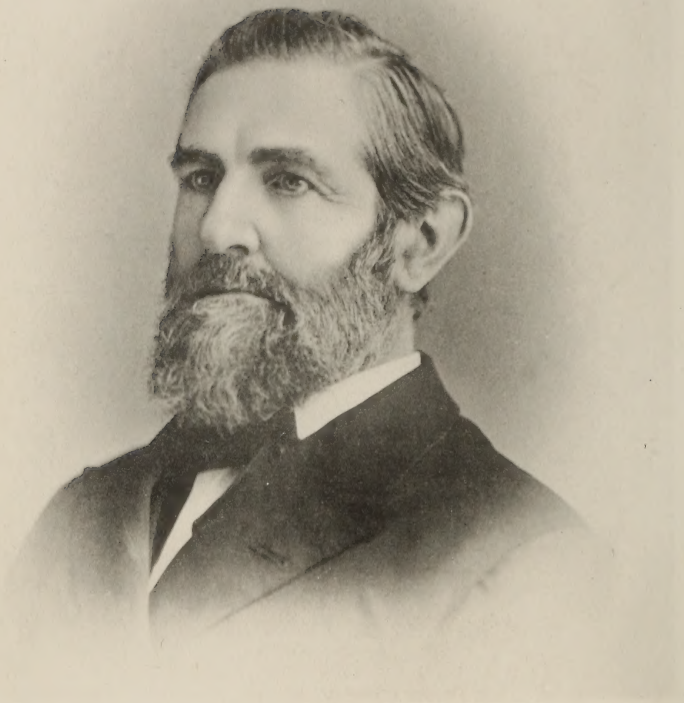

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# CATALOGUE

OF THE

# OFFICERS AND STUDENTS

OF

# BROWN UNIVERSITY

1895-96

PROVIDENCE, R. I.:
P. S. REMINGTON & CO., PRINTERS, 63 WASHINGTON STREET
1895

# CALENDAR 1895-96

| 1895 | *Sunday* | *Monday* | *Tuesday* | *Wednesday* | *Thursday* | *Friday* | *Saturday* |
|---|---|---|---|---|---|---|---|
| **July** | .. | 1 | 2 | 3 | 4 | 5 | 6 |
| | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| | 28 | 29 | 30 | 31 | .. | .. | .. |
| **Aug.** | .. | .. | .. | .. | 1 | 2 | 3 |
| | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| | .. | .. | .. | .. | .. | .. | .. |
| **Sept.** | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| | 29 | 30 | .. | .. | .. | .. | .. |
| **Oct.** | .. | .. | 1 | 2 | 3 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| | 27 | 28 | 29 | 30 | 31 | .. | .. |
| **Nov.** | .. | .. | .. | .. | .. | 1 | 2 |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| | .. | .. | .. | .. | .. | .. | .. |
| **Dec.** | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| | 29 | 30 | 31 | .. | .. | .. | .. |

| 1896 | *Sunday* | *Monday* | *Tuesday* | *Wednesday* | *Thursday* | *Friday* | *Saturday* |
|---|---|---|---|---|---|---|---|
| **Jan.** | .. | .. | .. | 1 | 2 | 3 | 4 |
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| | 26 | 27 | 28 | 29 | 30 | 31 | .. |
| **Feb.** | .. | .. | .. | .. | .. | .. | 1 |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| | .. | .. | .. | .. | .. | .. | .. |
| **Mar.** | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| | 29 | 30 | 31 | .. | .. | .. | .. |
| **Apr.** | .. | .. | .. | 1 | 2 | 3 | 4 |
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| | 26 | 27 | 28 | 29 | 30 | .. | .. |
| **May** | .. | .. | .. | .. | .. | 1 | 2 |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| | 31 | .. | .. | .. | .. | .. | .. |
| **June** | .. | 1 | 2 | 3 | 4 | 5 | 6 |
| | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| | 28 | 29 | 30 | .. | .. | .. | .. |

| 1896 | *Sunday* | *Monday* | *Tuesday* | *Wednesday* | *Thursday* | *Friday* | *Saturday* |
|---|---|---|---|---|---|---|---|
| **July** | .. | .. | .. | 1 | 2 | 3 | 4 |
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| | 26 | 27 | 28 | 29 | 30 | 31 | .. |
| **Aug.** | .. | .. | .. | .. | .. | .. | 1 |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| | 30 | 31 | .. | .. | .. | .. | .. |
| **Sept.** | .. | .. | 1 | 2 | 3 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| | 27 | 28 | 29 | 30 | .. | .. | .. |
| **Oct.** | .. | .. | .. | .. | 1 | 2 | 3 |
| | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| | .. | .. | .. | .. | .. | .. | .. |
| **Nov.** | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| | 29 | 30 | .. | .. | .. | .. | .. |
| **Dec.** | .. | .. | 1 | 2 | 3 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| | 27 | 28 | 29 | 30 | 31 | .. | .. |

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# College Calendar for 1895-96

*1895.*

*September 4.* *Wednesday.* Annual Meeting of the Corporation, in the Old Chapel, University Hall, (first Wednesday in September).

*September 16, 17.* *Monday, Tuesday.* Examination of Delinquents in College Studies.

*September 16, 17.* *Monday, Tuesday.* Examinations for Admission to the Freshman Class and to Advanced Standing.

*September 18.* *Wednesday.* **Academic Year Begins.**

*October 15.* *Tuesday.* Registration of Graduate Students ends.

*October 19.* *Saturday.* Applications for First Term Honor Reading must be in.

*November 28.* *Thursday.* Thanksgiving Day. No College Exercises on Thursday, Friday, or Saturday of Thanksgiving week.

*December 14-20.* *Saturday to Friday.* Term Examinations of College Classes.

**Christmas Holidays,** from Friday Evening, December 20, 1895, to Thursday evening, January 2, 1896.

1896.

| | |
|---|---|
| *January 3.* | *Friday.* **Second Term Begins.** |
| *January 20.* | *Tuesday.* Applications for Second Term Honor Reading must be in. |
| *January 30.* | *Thursday.* Day of Prayer for Colleges. |
| *February 22.* | *Saturday.* Washington's Birthday. No College Exercises. |
| *March 14-20.* | *Saturday to Friday.* Term Examinations of College Classes. |
| | **Spring Recess,** from Friday evening, March 20, to Monday evening, March 30. |
| *March 31.* | *Tuesday.* **Third Term Begins.** |
| *April 30.* | *Thursday.* Dissertations of Candidates for the Doctorate must be in. |
| *May 20.* | *Saturday.* Applications for Third Term Honor Reading must be in. |
| *May 30.* | *Saturday.* Memorial Day. No College Exercises. |
| *May 30.* | *Saturday.* Examinations for Advanced Degrees end. |
| *June 5-11.* | *Friday to Thursday.* Term examinations of College Classes. |
| *June 11.* | *Thursday.* Hicks Prize Debate. |
| *June 12.* | *Friday.* Class Day. |
| *June 14.* | *Sunday.* Baccalaureate Sermon. |
| *June 15.* | *Monday.* Sophomore Prize Declamation. |

*June 16.* *Tuesday.* Annual Meeting of the Phi Beta Kappa Society, at 9.30 A. M.

*June 16.* *Tuesday.* Annual Alumni Meeting, in Manning Hall, at 4 P. M.

*June 17.* *Wednesday.* **One Hundred and Twenty-seventh Annual Commencement** (third Wednesday in June).

*June 18.* *Thursday.* Meeting of the Corporation, in the Old Chapel, University Hall.

*June 18, 19, 20.* *Thursday, Friday, Saturday.* Examinations for Admission to College.

## Summer Vacation

*September 2.* *Wednesday.* Annual Meeting of the Corporation, in the Old Chapel, University Hall (first Wednesday in September).

*September 14, 15.* *Monday, Tuesday.* Examination of Delinquents in College Studies.

*September 14, 15.* *Monday, Tuesday.* Examinations for Admission to the Freshman Class and to Advanced Standing.

*September 16.* *Wednesday.* **Academic Year Begins.**

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362 Point Street.

CHARLES FOSTER KENT, PH. D.,
*Associate Professor of Biblical Literature and History*,
1 College Court.

JOHN BAXTER JR.,
*First Lieutenant 9th United States Infantry*,
*Professor of Military Tactics*.
11 Halsey Street.

LOUIS FRANKLIN SNOW, A. M.,
*Dean of the Women's College*,
1489 Westminster Street ; Office 235 Benefit Street.

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*'ctor in Chemistry*,
of Trade Building.

MILLS SAUNDERS.
*'tor in Chemistry*,
ield Street, Johnston.

JOHN FRANCIS GREENE, A. B.,
*Instructor in Latin*,
51 Angell Street.

FRED EUGENE PARKER, A. B.,
*Instructor in Physical Culture and Director of the Gymnasium*,
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EDWARD CLIFTON BURNHAM, A. B., B. S.,
*Instructor in Mechanical Drawing and Engineering*,
Pawtucket.

ALBERT BUSHNELL JOHNSON, A. M.,
*Instructor in the Romance Languages*,
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ROBERT ELKIN NEIL DODGE, A. M.,
*Instructor in English Literature*,
167½ Angell Street.

ALBERT DEFOREST PALMER JR., PH. D.,
*Instructor in Physics*,
Wilson Hall.

FREDERICK POOLE GORHAM, A. M.,
*Instructor in Biology*,
237 Knight Street.

WALTER EDWARD SMITH, A. B.,
*Instructor in Chemistry*,
47 Jenkins Street.

CARL BARUS, PH
*Hazard Professor of I*
81 South Angell Stre

FRANCIS GREENLEAF ALI
*Associate Professor of*
434 Brook Street

HENRY PARKER MANN
*Assistant Professor of Pur*
424 Cranston Street.

HAMMOND LAMONT, A. B.,
*Associate Professor of Rhetoric and Oratory*,
48 Barnes Street.

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*Associate Professor of Civil Engineering*,
299 Potter's Avenue.

JAMES QUAYLE DEALEY, PH. D.,
*Assistant Professor of Social and Political Science*,
33 Benevolent Street.

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1 College Court.

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*First Lieutenant 9th United States Infantry*,
*Professor of Military Tactics*.
11 Halsey Street.

LOUIS FRANKLIN SNOW, A. M.,
*Dean of the Women's College*,
1489 Westminster Street ; Office 235 Benefit Street.

FREDERICK TAFT GUILD, A. M.,
*Secretary of the Faculty and Registrar,*
40 East Manning Street; Office 2 University Hall.

EDWIN EDDY CALDER, A. M.,
*Instructor in Chemistry,*
Board of Trade Building.

WALTER MILLS SAUNDERS,
*Instructor in Chemistry,*
263 Plainfield Street, Johnston.

JOHN FRANCIS GREENE, A. B.,
*Instructor in Latin,*
51 Angell Street.

FRED EUGENE PARKER, A. B.,
*Instructor in Physical Culture and Director of the Gymnasium,*
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*Instructor in Physics,*
Wilson Hall.

FREDERICK POOLE GORHAM, A. M.,
*Instructor in Biology,*
237 Knight Street.

WALTER EDWARD SMITH, A. B.,
*Instructor in Chemistry,*
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397 Pine Street.

WILLIAM WASHBURN MOSS, A. M.,
*Instructor in Mathematics*,
231 Broadway.

MILLER MOORE FOGG, JR., A. M.,
*Instructor in Public Speaking*,
29 Angell Street.

FREDERICK WILLIAM MARVEL, B. P.,
*Instructor in Drawing and in Physical Culture*,
51 Angell Street.

FREDERICK MELLEN KNIGHTS, B. S.,
*Instructor in Chemistry*,
12 Pease House.

ADOLPH CONRAD ELY, A. M.,
*Instructor in German*,
12 Congdon Street.

HENRY FARRAR LINSCOTT, PH. D.,
*Instructor in Indo-Iranian Philology*,
12 Congdon Street.

GEORGE ABNER WILLIAMS, PH. D.,
*Instructor in Greek*,
154 Pitman Street.

JOSEPH NICKERSON ASHTON, A. M.,
*Instructor in Musical Theory and History*,
Boston.

ALBERT DAVIS MEAD, PH. D.,
*Instructor in Comparative Anatomy*,
158 Prospect Street.

CARL VERNON TOWER, A. M.,
*Instructor in Philosophy*,
261 Benefit Street.

JOHN SMITH SHIPPEE, A. B.,
*Instructor in Latin*,
East Greenwich.

ARTHUR EUGENE WATSON, A. B.,
*Instructor in Physics*,
65 Meeting Street.

FREDERICK SLOCUM, A. B.,
*Instructor in Mathematics*,
391 Olney Street.

WALTER GUYTON CADY, B. P.,
*Instructor in Mathematics*,
127 Power Street.

FREDERICK OTIS CLAPP, A. B.,
*Instructor in Mathematics*,
11 Bridgham Street.

ALGERNON WAIT PUTNAM, A. B.,
*Instructor in French*,
94 George Street.

LOUIS ALEXANDRE ROUX, A. B.,
*Instructor in French*,
3 Angell Place.

CHARLES MARSHALL POOR, A. M.,
*Instructor in German and Curator of the German Seminary,*
12 Congdon Street.

THOMAS CROSBY Jr., A. M.,
*Assistant in Rhetoric,*
49 George Street.

EDWIN COLLINS FROST, A. B.,
*Assistant in Rhetoric,*
207 Smith Street.

ARTHUR LLEWELLYN ENO, A. B.,
*Assistant in Rhetoric.*
Warwick.

ELIJAH ABRAHAM HANLEY, A. B.,
*Assistant in Rhetoric,*
12 Congdon Street.

JAMES FRANKLIN COLLINS,
*Curator of the Herbarium,*
126 East Avenue.

REUBEN ALDRIDGE GUILD, A. M., LL. D.,
*Librarian Emeritus,*
34 Pratt Street.

JOHN MILTON BURNHAM, A. M.,
*Assistant Librarian,*
684 Westminster Street.

MABEL TEMPLE,
*Cataloguer,*
51 Angell Street.

NETTIE SERENA GOODALE, A. B.,
*Assistant Cataloguer,*
Pawtucket.

DORA AUGUSTA BARBER,
*Assistant Cataloguer,*
20 Angell Street.

ARCHIBALD GRANT DELANEY,
*Steward*,
347 Brook Street: Office, 3 University Hall.

FRANK EUGENE LESTER,
*Assistant in the Carpenter Shop*,
Washington Village.

FRANK EDWIN STARK,
*Assistant in the Machine Shop*,
170 Lockwood Street.

GEORGE MILTON GRAY,
*Assistant in the Anatomical Laboratory*.
62 George Street.

# STANDING COMMITTEES OF THE FACULTY

*On Graduate Students and Studies*

Professors WILLIAMS, PACKARD, JAMESON, HARKNESS, SETH, MANATT, BARUS and SCOTT [Secretary].

*On Courses for Special Students*

Professors UPTON, RANDALL and ALLINSON, and Messrs. GREENE, PALMER, BURNHAM, and GUILD.

*On the Library*

THE PRESIDENT, Professors APPLETON [till 1896] and JAMESON [till 1897].

*On Admission to the Freshman Class*

Professors CLARKE, WILLIAMS, DAVIS, HARKNESS, MANATT, LANGDON, SEARS and LAMONT, and Mr. SNOW.

*On Absences*

Professors WILSON, BAILEY, SEARS, CROWELL, HILL and DEALEY.

*On the Curriculum*

Professors POLAND, DAVIS, BUMPUS, BRONSON and GARDNER, and Messrs. DODGE and GUILD.

*On Courses for Advanced Undergraduate Candidates for Degrees*

Professors DAVIS, MANLY, DELABARRE, MANNING and KENT, and Messrs. JOHNSON and GUILD.

*On Athletics*

Professors MUNRO, FIELD and BAXTER, Dr. WILLIAMS and Mr. PARKER.

*On Honor Courses*

Professor MANNING, Messrs. SNOW and JOHNSON.

## Officers and Committees of the Associated Alumni

*President*

Henry K. Porter, A. M., Pittsburgh, Pa.

*First Vice-President*

William W. Keen, M. D., LL. D., Philadelphia, Pa.

*Second Vice-President*

Hon. Edward L. Pierce, LL. D., Boston, Ms.

*Secretary*

George G. Wilson, Ph. D., 165 Propect St., Providence.

*Treasurer*

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*Executive Committee*

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*Advisory Committee*

The Secretary of the General Association, and the Secretaries of the Associations at Boston, Newport, Norwich, Fall River, Chicago and New York.

## Officers and Committees of the Rhode Island Alpha of the Phi Beta Kappa Society

*President*

Professor Nathaniel F. Davis, LL. D.

*Vice-President*

Charles B. Goff, Ph. D.

*Corresponding Secretary*

Professor Wilfred H. Munro, A. M.

*Treasurer*

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*Committee of Appointment*

Professor Benjamin F. Clarke, Mr. Daniel Beckwith, Hon. David S. Baker Jr., Hon. George M. Carpenter, Rev. Frederic Denison, Joseph C. Ely, Esq., and Professor A. G. Harkness.

*Committee of Arrangements*

Mr. David W. Hoyt, Professor Winslow Upton, Professor Otis E. Randall.

*Auditing Committee*

Dr. Reuben A. Guild, Mr. Robert P. Brown.

# RISE AND CONSTITUTION OF THE UNIVERSITY

Brown University owes its origin to the happy convergence of two separate lines of influence. So early as 1762 a "resolution to erect a college and institute a seminary for the education of youth somewhere in North America" had been formed by the Philadelphia Baptist Association, under whose auspices the Hopewell Academy, in New Jersey, had already been established. As Rhode Island had been settled on the principle of perfect toleration in religious belief, it was decided to apply to its legislature for a charter.

Ever after the residence here, from 1729 to 1731, of the distinguished Dean Berkeley, subsequently Bishop of Cloyne, Newport had been the centre of a pronounced intellectual interest, while the memory of Berkeley's scheme to found a college in America, with the actual erection of colleges in several of the other colonies, made it impossible that the suggestion of a college for Rhode Island should be strange or unwelcome to thoughtful people in that colony. The charter was granted, and reads as follows :

> At the General Afsembly of the Governor and Company of the English Colony of Rhode Island and Providence-Plantations in New England in America, begun and held at East Greenwich within & for said Colony by adjournment upon the last Monday of Febr one Thousand Seven Hundred and Sixty-four, and in the fourth Year of the Reign of His Most Sacred Majesty George the Third, by the Grace of God, King of Great Britain and so forth

WHEREAS Inſtitutions for liberal Education are highly benefic.. to Society, by forming the rising Generation to Virtue Knowledge & useful Literature & thus preserving in the Community a Succeſsion of Men duly qualify'd for discharging the Offices of Life with usefulneſs & reputation they have therefore justly merited & received the attention & Encouragement of every wise and well regulated State, and whereas a Public School or Seminary erected for that purpose within this Colony, to which the Youth may freely resort for Education in the Vernacular & Learned Languages & in the liberal Arts & Sciences, would be for the general Advantage & Honor of the Government, and whereas

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| Mr Gideon Hoxsey | Mr Ezekiel Gardner | Daniel Jenckes Esqr |
| | | Nicholas Tillinghast Esqr |
| Mr Thomas Eyres | Mr John Waterman | |
| | | Nicholas Gardiner Esqr |
| Mr Thomas Potter Junr | Mr James Barker Junr | Cole. Joſias Lyndon |
| Mr Peleg Barker | Mr John Holmes | Cole Eliſha Reynolds |
| Mr Edwd Thurston | Solomon Drown Esqr | |
| Mr Wm Redwood | Mr Saml Windſor | Peleg Thurston Esqre |
| | | Simon Peaſe Esqre |
| Joseph Clarke Esqr | Mr Joseph Sheldon | |
| Mr John G. Wanton | Charles Rhodes Esqre | John Tillinghast Esqre |
| | | George Haszard Esqre |
| Mr Thos Robinſon | Mr Nicholas Brown | Cole Job Bennet |
| | Cole Mr Barzilla Richmond | Nicholas Easton Esqre |
| | Mr John Brown | Arthur Fenner Esqre |

with many other Perſons appear as undertakers in the valuable design, & thereupon a Petition has been preſer'd to this Aſsembly praying that full Liberty and Power may be granted unto such of them with others as are hereafter mentioned to found endow, order & govern a College or University within this Colony & that for the more effectual execution of this design they may be incorporated into one Body Politic to be known in the Law with the powers priviledges & franchiſes neceſsary for the purpose aforesaid—

Now, therefore know ye that being willing to encourage and patronise ſuch an honorable and useful Inſtitution, we the said Governor & Company in General Aſsembly convened do for ourselves and our

Succeſsors in and by virtue of the Power and Authority within the Jurisdiction of this Colony to us by the Royal Charter granted & committed enact grant conſtitute ordain & declare & it is hereby enacted granted conſtituted ordained and declared that the

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| Rev$^{d}$ James Manning | Joshua Babcock Esq$^{re}$ | Hon'ble Stephen Hopkins Esq$^{re}$ |
| Rev$^{d}$ Ruſsel Mason | M$^{r}$ John G. Wanton | Hon'ble Joseph Wanton Jun$^{r}$ Esq$^{re}$ |
| Col$^{o}$ Elisha Reynolds | Rev$^{d}$ Edward Upham | ~~Honble John Gardner~~ |
| Col$^{o}$ Josias Lyndon | Rev$^{d}$ Jeremiah Condy | Hon'ble Samuel Ward Esq$^{re}$ |
| Col$^{o}$ Job Bennet | Rev$^{d}$ Marmaduke Brown | Hon'ble William Ellery Esq$^{re}$ |
| M$^{r}$ Ephraim Bowen | Rev$^{d}$ Gardner Thurston | " John Tillinghast Esq$^{re}$ |
| Joshua Clarke Esq$^{re}$ | Rev$^{d}$ Ezra Stiles | " Simon Pease Esq$^{re}$ |
| Cap$^{t}$ Jon$^{a}$ Slade | Rev$^{d}$ John Greaves | " James Honyman Esq$^{re}$ |
| John Taylor Esq$^{re}$ | Rev$^{d}$ John Maxson | " Nicholas Easton Esq$^{re}$ |
| M$^{r}$ Robert Strettell Jones | Rev$^{d}$ Sam$^{l}$ Winſor | " Nicholas Tillinghast Esq$^{r}$ |
| Azariah Dunham Esq$^{re}$ | Rev$^{d}$ John Gano | " Darius Seſsions Esq$^{re}$ |
| M$^{r}$ Edward Thurston J$^{r}$ | Rev$^{d}$ Morgan Edwards | " Joseph Harris Esq$^{re}$ |
| M$^{r}$ Thomas Eyres | Rev$^{d}$ Isaac Eaton | " Francis Willet Esq$^{re}$ |
| M$^{r}$ Thomas Haszard | Rev$^{d}$ Sam$^{l}$ Stillman | William Logan Esq$^{re}$ |
| M$^{r}$ Peleg Barker | Rev$^{d}$ Sam$^{l}$ Jones | " Daniel Jencks Esq$^{re}$ |
| | | George Hazard Esq$^{re}$ |
| | | ~~M$^{r}$~~ Nicholas Brown Esq$^{re}$ |
| | | " Jeremiah Niles Esq$^{re}$ |

or ſuch or so many of them as ſhall within twelve Months from the date hereof, accept of this trust and qualify themſelves as herein after directed, and their Succeſsors ſhall be for ever hereafter one Body Corporate & Politic in Fact and Name to be known in Law by the Name of Truſtees, and Fellows of the College or University in the English Colony of Rhode Island and Providence Plantations in New England in America the Truſtees and Fellows at any Time hereafter giving such more particular Name to the College in Honor of the greatest & most distinguished Benefactor or otherwise as they shall think proper which Name so given shall in all Acts, Inſtruments and Doings of said Body Politic be superadded to their corporate Name aforesaid, and become a part of their legal Appellation, by which it ſhall be for ever known and distinguished, and that by the ſame Name, they and their Succeſsors chosen by themselves as hereafter preſcribed ſhall and may have perpetual Succeſsion, and ſhall & may be Perſons able and capable in the Law to Sue, & to be Sued to Plead and

to be impleaded to Anſwer, and to be Answered unto, to defend and to be defended in all and singular Suits Cauſes Matters Actions and Doings of what kind soever & also to have take poſſeſs purchase acquire or otherwise receive & hold Lands Tenements Hereditaments, Goods Chattles or other Estates of all which they may and ſhall stand and be seized notwithstanding any Miſnomer of the College or the Corporation hereof and by what ever Name or however imperfectly the ſame ſhall be described in Giſt, Bequests and Aſsignments provided the true intent of the Aſsigner or Benefactor be evident. Also the ſame to grant demiſe alien lease use manage and improve according to the Tenor of the Donations, and to the Purposes Trusts & Uſes to which they ſhall be ſeized there of and full Liberty Power & Authority is hereby granted unto the said Truſtees & Fellows and their Succeſsors to found a College or Univerſity within this Colony for promoting the Liberal Arts and Universal Literature, and with the Monies Estates & Revenues of which they ſhall from time to time become legally Seized as aforesaid to Endow the ſame and erect the neceſsary Buildings & Edefices thereof on such Place within this Colony as they ſhall think Convenient: And Generally to regulate Order & Govern the ſame Appoint Officers & make Laws as herein after prescribed & hold use & enjoy all the Liberties Priviliges exemptions, Dignities & Immunities enjoy'd by any College or University whatever, And furthermore that the s$^{d}$, Trustees & fellows & their Succeſsors ſhall & may forever hereafter have a public Seal to use for all Causes matters & affairs whatever of them and their Succeſsors and the ſame Seal to alter Break & make anew from time to time at their Will and Pleasure which Seal ſhall always be deposited with the President or Senior fellow and furthermore by the Authority aforesaid it is hereby enacted Ordained & declared that it is now and at all Times hereafter ſhall continue to be the unalterable Conſtitution of this College or University that the Corporation thereof shall consist of two Branches Viz: that of the Trustees & that of the fellowſhip with distinct ſeperate & respective powers, and that the Number of the Trustees ſhall and may be thirty ~~five~~ six of which twenty two ſhall forever be Elected of the Denomination called Baptists or Antipedobaptis Five ſhall for ever be elected of the Denomination called Friends or Quakers, four ſhall for ever be elected of the Denomination called Congregationalists, & ~~four~~ Five ſhall

for ever be elected of the Denomination called Episcopalians & that the Succeſsion in this Branch ſhall be for ever chosen & filled up from the respective Denominations in this proportion and according to these Numbers which are hereby fixt & ſhall remain to perpetuity imutably the ſame and that the said

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| Rev$^{d}$ Iſaac Eaton | " Francis Willet Esq$^{re}$ | Hon'ble Stephen Hopkins Esq$^{r}$ |
| Rev$^{d}$ Sam Stillman | " Daniel Jencks Esq$^{re}$ | Hon'ble Joseph Wanton Jun Esq$^{r}$ |
| Rev$^{d}$ Ruſsel Maſon | George Haszard Esq$^{re}$ | ~~Hon'ble John Gardner Esq$^{re}$~~ |
| Col$^{o}$ Elisha Reynolds | Nicholas Brown Esq$^{re}$ | Hon'ble Samuel Ward Esq$^{re}$ |
| Col$^{o}$ Josias Lyndon | " Jeremiah Niles Esq$^{re}$ | Hon'ble William Ellery Esq$^{r}$ |
| Col$^{o}$ Job Bennet | " ~~M$^{r}$~~ John G Wanton Esq$^{re}$ | " John Tillinghast Esq$^{re}$ |
| M$^{r}$ Ephraim Bowen | " ~~M$^{r}$~~ Joshua Clark Esq$^{re}$ | " Simon Pease Esq$^{re}$ |
| John Taylor Esq$^{re}$ | " Rev$^{d}$ Gardner Thurston | " James Honyman Esq$^{re}$ |
| Cap$^{t}$ Jon$^{a}$ Slade | " Rev$^{d}$ John Greaves | " Nicholas Easton Esq$^{re}$ |
| M$^{r}$ Robert Strettell Jones | " Rev$^{d}$ John Maxſon | " Nicholas Tillinghast Esq$^{r}$ |
| Azariah Dunham Esq$^{re}$ | " Rev$^{d}$ John Gano | " Darius Sefsions Esq$^{re}$ |
| M$^{r}$ Edward Thurston Jun$^{r}$ | " Rev$^{d}$ Sam$^{l}$ Winſor | " Joseph Harris Esq$^{re}$ |
| M$^{r}$ Peleg Barker | | |

or ſuch or so many of them as ſhall qualify themselves as aforesaid shall be and they are hereby declared and established the first and present Truſtees.— And that the Number of the Fellows inclusive of the President who ſhall always be a Fellow, ſhall and may be Twelve of which eight ſhall be for ever elected of the Denomination called Baptists or Antipadobaptists, and the rest indifferently of any or all Denominations and that the

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| Joshua Babcock Esq. | Rev$^{d}$ Ezra Stiles | Rev. Edward Upham |
| M$^{r}$ Thomas Eyres | Rev$^{d}$ Sam$^{l}$ Jones | Rev. Jeremiah Condy |
| M$^{r}$ Thomas Haſzard | Rev$^{d}$ James Manning | Rev. Marmaduke Brown |
| | ~~Honble~~ W$^{m}$ Logan Esq$^{re}$ | Rev. Morgan Edwards |

or ſuch or so many of them as ſhall qualify themselves as aforesaid. ſhall be, and they are hereby declared the first and present Fellows and Fellowship to whom the President when hereafter elected who shall forever be of the Denomination called Baptist or Antepedo Baptist ſhall be Joined to compleat the Number. And furtnermore it is declared and ordained that the Succeſsion in both Branches ſhall at all times hereafter be filled up and ſupplied according to these Numbers and this established and invariable Proportion from the respective Denominations by the ſeperate Election of both Branches

of this Corporation which ſhall at all Times ſitt and Act by seperate and distinct Powers, and in general in order to the validity and conſummation of all Acts there ſhall be in the Exerciſe of their respective ſeperate and distinct Powers, the Joint concurrence of the Truſtees and the Fellows by their respective Majorities except in adjudging and conferring the Academical Degrees which ſhall for ever belong exclusively to the Fellowship as a Learned Faculty And further it is conſtituted that the Inſtruction and immediate Government of the College ſhall for ever be and Rest in the President and Fellows or Fellowship—And furthermore it is ordained that there ſhall be a General Meeting of the Corporation on the first Wednesday of September Annually within the College Edifice, and untill the ſame be Built at ſuch Place as they ſhall appoint to conſult Advise and transact the Affairs of the College or University at which or at any other time the Public Commencement may be held and Celebrated and that on any special Emergencies the President with any two of the Fellows or any Three of the Fellows exclusive of the Preſident may convoke and they are hereby empowered to convoke an Aſsembly of the Corporation on twenty Days Notice and that in all Meetings the Major Vote of those Present of the two Branches respectively ſhall be deemed their respective Majorities aforesaid, provided that not leſs than twelve of the Trustees & five of the Fellows be a Quorum of their Respective Branches—That the President or in his Absence the Senior Fellow present ſhall always be Moderator of the Fellows, that the Corporation at their Annual Meetings once in three Years or oftner in Case of Death or Removal ſhall and may chose a Chancellor of the Univerſity and Treaſurer from among the Truſtees, and a Secretary from among the Fellows, that the Nomination of the Chancellor ſhall be in the Trustees whose Office ſhall be only to Preside as a Moderator of the Truſtees and that in his Abſence the Truſtees ſhall choose a Moderator for the time being by the Name of Vice Chancellor and at any of their Meetings duly formed as aforesaid ſhall and may be elected a Truſtee or Fellow, or Truſtees or Fellows in the Room of those Nominated in this Charter who may refuse to accept or in the Room of those who may Die, Resign or be Removed— And furthermore it is enacted ordained and declared that this Corporation at any of their Meetings regularly convened as aforesaid ſhall and may Elect and appoint the President and Profeſsors of Languages and the

ſeveral Parts of Literature, and upon the demiſe of him or them or either of them their Reſignation or Removal from his or their Office for Misdemeanor Incapacity or Unfaithfulneſs, for which he or they are hereby declared removeable by this Corporation others to Elect and Appoint in their Room and Stead, & at ſuch meeting upon the Nomination of the Fellows to Elect and Appoint Tutors Stewards Butlers and all ſuch other Officers usually appointed in Colleges or Univerſities as they ſhall find neceſsary and think fitt to appoint for the promoting Liberal Education and the well ordering the Affairs of this College and them or any of them at their diſcretion to remove and ſubſtitute others in their Places, and in case any President Trustee or Fellow ſhall ſee Cause to change his Religious Denomination the Corporation is hereby empowered to declare his or their Place or Places Vacant, and may proceed to fill up it or them accordingly as before directed otherwise each Truſtee and Fellow not an officer of Inſtruction ſhall continue in his Office, during Life or untill Reſignation and further in Case either of the Religious denominations ſhou'd decline taking a Part in this Catholic Comprehenſive and liberal Inſtitution the Truſtees and Fellows ſhall and may compleat their Number by electing from their Respective Denominations always preſerving their Reſpective Proportions, herein before prescribed and determined, and all Elections ſhall be by Ballot, or written Suffrage, and that a Quorum of four Trustees & three Fellows may transact any Buſineſs excepting placing the College Edifice, Election of Truſtees, President, Fellows and Profeſsors that is to ſay so that their Acts ſhall be of Force and Validity untill the next Annual Meeting and no longer———

And it is further Enacted and Ordained by the Authority aforesaid that each Truſtee and Fellow as well those Nominated in this Charter or all that ſhall hereafter be duly Elected ſhall previous to their acting in a corporate Capacity take the Engagement of Allegiance prescribed by the Law of this Colony to His Majesty King George the third, His Heirs and Rightful Succeſsors to the Crown of Great Britain which Engagement ſhall be Administered to the present Trustees and Fellows by the Governor or Deputy Governor of this Colony and to them from time to time hereafter Elected by their Respective Moderators who are hereby empowered to Administer the ſame———

And ſtill the more clearly to define and Aſcertain the Respective Powers of the two Branches on making and enacting Laws, it is further Ordained and Declared that the Fellowſhip ſhall have Power and are hereby impowered from time to time and all times hereafter to make Enact and Publiſh all ſuch Laws Statutes Regulations and Ordinances with Penalties as to them ſhall ſeem meet for the ſucceſful Instruction and Government of said College or University not contrary to the Spirit Extent, true Meaning and Intention of the Acts of the British Parliament or the Laws of this Colony, and the ſame Laws, Statutes and Ordinances to Repeal, which Laws and the Repeals thereof, ſhall be laid before the Truſtees, and with their Approbation ſhall be of Force and Validity but not otherwiſe, and further the Truſtees and Fellows at their Meetings aforesaid ſhall aſcertain the Salaries of the Respective Officers and Order the Monies aſſeſsed on the Students, for Tuition Fines and Incidental Expences to be Collected by the Steward or ſuch other Officer as they ſhall appoint to Collect the ſame, and the ſame with their Revenues and other College Estates in the Hands of the Treaſurer to appropriate, in discharging Salaries and other College Debts and the College Accounts shall be Annually Audited and Adjusted in the Meeting of the Corporation and furthermore it is hereby enacted and declared that into this Libeŕal & Catholic Inſtitution ſhall never be admitted any Religious Tests but on the Contrary all the Members hereof ſhall for ever enjoy full free Absolute and uninterrupted Liberty of Conscience and that the Places of Profeſsors, Tutors and all other Officers the Preſident alone excepted ſhall be free and open for all Denominations of Protestants and that Youths of all Religious Denominations ſhall and may be freely admitted to the Equal Advantages Emoluments & Honors of the College or Univerſity and ſhall receive a like fair generous & equal Treatment, during their Residence therein, they conducting themſelves peaceably and conforming to the Laws and Statutes thereof: And that the Public teaching ſhall in general Respect the Sciences and that the Sectarian differences of opinions, ſhall not make any Part of the Public and Classical Inſtruction, altho' all Religious Controversies may be ſtudied freely examined and explained by the President Profeſsors and Tutors in a personal ſeperate and distinct manner, to the Youth of any or each Denomination and above all a constant Regard be paid to and effectual Care taken of the Morals

of the College and furthermore for the honour & encouragement of Literature we conſtitute and declare the Fellowship aforesaid a learned faculty and do hereby give grant unto and invest them & their Succeſsors with full Power & Authority, and they are hereby Authoriz'd & impowered by their President & in his Abſence by the Senior Fellow or one of the Fellows appointed by themſelves at the Anniversary Commencements or at any other times and at all Times hereafter to Admit to & Conferr any & all the Learned Degrees which can or ought to be given and conferred in any of the Colleges & Univerſities in America ~~Europe & particularly in the University in Cambridge & Edinbourgh in Great Britain~~) or any ſuch other Degrees of Literary Honor as they ſhall devise upon any and all ſuch Candidates and Perſons as the President and Fellows or Fellowſhip ſhall Judge worthy of the Academical Honors, which Power of conferring Degrees is hereby restricted to the Learned Faculty, who ſhall or may Iſsue Diplomas or Certificates of ſuch Degrees or conferr Degrees by Diplomas and Authenticate them with the Public Seal of the Corporation, and the Hands of the President and Secretary, and of all the Profeſsors as Witneſses and deliver them to the Graduates as Honorable and Perpetual Testimonies, and furthermore for the greater Encouragement of this Seminary of Learning and that the ſame may be amply endow'd and enfranchised with the ſame priviledges Dignities and Immunities, enjoy'd by the American Colleges and European Univerſities, we do grant enact Ordain and Declare and it is hereby granted Enacted Ordained and Declared that the College Estate, the Estates Perſons and Families of the President and Profeſsors for the Time being lying and being within the Colony with the Perſons of the Tutors ~~Graduates~~ and Students during their Residence at the College ſhall be freed and exempted from all Taxes, ſerving on Juries and Menial Services, and that the Persons aforesaid ſhall be exempted from bearing Arms Impreſses and Military Services except in Case of an Invaſion And furthermore for eſtabliſhing the perpetuity of this Corporation and in caſe that at any time hereafter through oversight or otherwiſe through misapprehensions and mistaken Constructions of the Powers Liberties and Franchises herein contained any Laws should be enacted or any matters done and transacted by this Corporation contrary to the tenor of this Charter it is hereby enacted ordained and declared that all such Laws Acts and Doings shall be in themselves null and

void : yet nevertheleſs the same shall not in any Courts of Law or by the Gen^rl^e Aſsembly be deemed taken interpreted or adjudged into an avoidance, defeazance or forfeiture of this Charter but that the same shall be and remain unhurt inviolate and entire unto the said Corporation in perpetual Succeſsion, which Corporation may at all times and forever hereafter proceed & continue to Act ; and all their Acts conformable to the Powers, tenor, true intent and Meaning of the Charter shall be and remain in full force and validity, the nullity and avoidance of any such illegal Acts to the Contrary in any wiſe notwithstanding— and laſtly, We the Governor and Company aforesaid do for ourselves and our Succeſsors, forever hereby enact, Grant & confirm unto the said Truſtees and Fellows and to their Succeſsors that this Charter of Incorporation and every part thereof shall be good and available in all things in the Law according to our true Intent and meaning, and shall be construed, reputed & adjudged in all caſes moſt favorably on the behalf and for the beſt benefit and behoof of the said Truſtees and Fellows and their Succeſsors so as most effectually to answer the valuable Ends of this uſefull Inſtitution——

In full Teſtimony of which Grant and of all the Articles and matters therein contained, the said Governor & Company do hereby order that this Act shall be Signed by the Governor and Secretary and Sealed with the publick Seal of this Colony and Registerd in the Colonys Records and that the Same or an exemplification thereof shall be a sufficient Warrant to the said Corporation to hold, uſe and exerciſe all the Powers, Franchiſes and Immunities herein contained—

March 2^d^ 1764

To the Houſe of Mag^sts^

Gen^t^ Resolvd that the aforewritten Paſs as an Act of this Aſsembly

Noted & paſsd Nemine Contradicente
& ord^rd^ Josias Lyndon Clerk

In the Upper House
Read on the Third and concurred Nemine Contradicente
By Ord. Henry Ward Secr'y

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NOTE.—The above is in all respects an exact reproduction of the original Copy of the Charter in the office of the Secretary of the State of Rhode Island, in Providence.

On September 4, 1782, the Corporation omitted from the engagement to be taken by new members the acknowledgment of allegiance to the British Crown, at the same time ordering broken the old seal of the College, which contained the busts of the king and queen of Great Britain. The present seal, of which this volume bears the imprint, was adopted on September 3, 1834.

In the spring of 1764, Rev. James Manning, a recent graduate of the College of New Jersey, opened a Latin School at Warren, Rhode Island, as a step preparatory to the work of college instruction. In September 1765, he was formally appointed by the Corporation, "President of the College and Professor of Languages and other branches of learning, with full power to act in these capacities at Warren or elsewhere." The first Commencement was held at Warren, in September, 1769. In the spring of 1770 the College was moved to Providence. The corner-stone of the first building, still standing as the venerable University Hall, was laid on the fourteenth of May in that year. During the Revolutionary War college studies were suspended, and the building was used by the American and French forces for barracks and a hospital. At its meeting on Thursday, September 6, 1804, in view of distinguished beneficence to the College on the part of Mr. Nicholas Brown, the Corporation, under the power conveyed by the charter to change the title, voted, "That the College be known in all future time by the name of BROWN UNIVERSITY, in Providence, in the State of Rhode Island and Providence Plantations."

In 1863, the General Assembly of the State of Rhode Island passed an Act, subject to the consent of the Corporation, which was at once cordially given, limiting the exemption from taxation of the estates, persons and families of the President and Professors, to the "amount of ten thousand dollars for each of such officers, his estates, person and family included."

# Conditions of Admission to the University

## ADMISSION TO SPECIAL COURSES

The instruction furnished by the University, from the highest graduate studies down to the most elementary branches that are taught, is open to all young men of good character who possess the maturity and seriousness of purpose to profit by it. While every student who can conveniently do so is for his own good urged to matriculate for some one of the various degrees, this is by no means necessary; and such as do not do it are no less welcome to the advantages of the University than are candidates for degrees. It is the policy of the University to encourage all faithful students who enter for short periods. For such, special pains are taken to arrange profitable courses of study covering single terms, two terms, a year, or two years, according to circumstances. Each course of this kind must have the approval of the Faculty, and, except in special cases, will require attendance in the class-room for at least sixteen hours a week. The candidate must be familiar with the subjects preliminary to the studies which he proposes to pursue. He must sustain creditable examinations in all his studies at the close of each term. Special students are subject to the same regulations and discipline as candidates for degrees. Idle and worthless students will not be permitted to abuse the above facilities for special study as a means of preserving a merely nominal connection with the University. Upon later pages of this Catalogue are exhibited a few groups of courses specially appropriate for students who intend to enter professional schools. While primarily meant to guide candidates for degrees, these minor curricula, faithfully pursued, afford admirable preparation for professional study to such as find it for any reason impossible to earn collegiate degrees. On leaving the University, special students who desire them receive formal certificates of their attainments.

# ADMISSION TO COURSES LEADING TO DEGREES

Pupils from schools of known excellence are admitted to the Freshman Class without examination, on the certificates [not diplomas] of the Principals of these schools. Upon application by the Principal of any school from which pupils are received in this manner, the University furnishes blank forms for these certificates.

The regular examinations for admission to the FRESHMAN CLASS take place on Thursday, Friday, and Saturday, of Commencement week, June 18, 19, and 20, 1896, beginning at 9 o'clock A. M. on Thursday. These examinations occur in Rhode Island Hall. Candidates must present themselves promptly at the appointed times.

The order of the examinations will be:

THURSDAY, JUNE 18.

*Greek*, South Room, from 9 A. M. to 12.30 P. M.
*Latin*, North Room, from 2.30 to 6 P. M.
*History*, for B. P. candidates, North Room, from 9 A. M. to 12.30 P. M.

FRIDAY, JUNE 19.

*Mathematics*, South Room, from 8.15 A. M. to 12.30 P. M.
*French*, South Room, from 3 to 5 P. M.
*German*, North Room, from 3 to 5 P. M.

SATURDAY, JUNE 20.

*English*, South Room, from 9 to 11 A. M.

There will be, as follows, a second examination in each of the above branches, on Monday and Tuesday, September 14 and 15, 1896.

MONDAY, SEPTEMBER 14.

*German*, South Room, R. I. Hall, from 9 to 11 A. M.
*French*, North Room, R. I. Hall, from 9 to 11 A. M.
*English*, South Room, R. I. Hall, from 11.30 A. M. to 1 P. M.
*Mathematics*, North Room, R. I. Hall, from 2 to 6 P. M.

TUESDAY, SEPTEMBER 15.

*Latin*, North Room, R. I. Hall, from 8 to 10.30 A. M.
*Greek*, South Room, R. I. Hall, from 11 A. M. to 1.30 P. M

For admission to ADVANCED STANDING, unless coming from other Colleges of high standing, candidates are examined in the studies already pursued by the respective classes which they propose to enter. These examinations for 1896 will be held on Monday and Tuesday, September 14 and 15. Students must report at the Registrar's Office at 9 A. M. on Monday, September 14. A student from another College must present a certificate of his standing in the College which he has left and of regular dismission from it.

If desired, examinations will be appointed in cities remote from Providence. Correspondence on this subject should be addressed to the Registrar of the University.

Qualified members of the Freshman Class are matriculated at the beginning of the second term. Till matriculation, all candidates for degrees, however admitted, are regarded as on probation.

## 1, Entrance Examinations to be Passed by Every Candidate for a Degree

Unless admitted by certificate every undergraduate candidate for a degree in Brown University, whether Bachelor of Arts, Bachelor of Philosophy, Bachelor of Science, Civil Engineer or Mechanical Engineer, is, before entering College, required to pass examination upon a certain amount of Mathematics, upon a certain amount of English, and upon a certain amount either of French or of German.

Of candidates for the degree of Civil Engineer or for that of Mechanical Engineer, no other entrance examinations are required.

The entrance examinations which all candidates for degrees must pass are the following:

**A. Mathematics.** 1. Algebra, through Equations of the Second Degree, including Arithmetical and Geometrical Progression and the use of the Binomial Formula. 2. Plane Geometry.

**B. English.** The examination in English consists of two parts, one to test the pupils' General Reading, the other to bring out the results of their more careful Study and Practice in this branch. The entire examination occupies not less than two hours.

**Part 1. Reading and Practice.** This examination for 1896 will be upon the following works: Shakespere's A Midsummer Night's Dream, Defoe's History of the Plague in London, Irving's Tales of a Traveller, Scott's Woodstock, Macaulay's Essay on Milton, Longfellow's Evangeline, and George Eliot's Silas Marner.

The candidate must exhibit a good general knowledge of the subject-matter of each work, and answer simple questions on the lives of the authors. The usual form of examination is the writing of a paragraph

or two on each of several topics, to be chosen by the candidate from a considerable number, perhaps ten or fifteen, named in the examination paper. The treatment of these topics is to test his power of clear and accurate expression. In place of a part or the whole of this exercise, the candidate may be allowed to present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading.

In 1897, the books for this portion of the examination will be Shakespere's As You Like It, Defoe's History of the Plague in London, Irving's Tales of a Traveller, Hawthorne's Twice Told Tales, Longfellow's Evangeline, and George Eliot's Silas Marner.

In 1898 they will be Milton's Paradise Lost, Books I and II, Pope's Iliad, Books I and XXII, The Sir Roger de Coverley Papers in the Spectator, Goldsmith's The Vicar of Wakefield, Coleridge's Ancient Mariner, Southey's Life of Nelson, Carlyle's Essay on Burns, Lowell's The Vision of Sir Launfal, and Hawthorne's The House of the Seven Gables.

In 1899, Dryden's Palamon and Arcite, Pope's Iliad, Books I, VI, XXII and XXIV, The Sir Roger de Coverley Papers in the Spectator, Goldsmith's The Vicar of Wakefield, Coleridge's The Ancient Mariner, De Quincey's The Flight of a Tartar Tribe, Cooper's The Last of the Mohicans, Lowell's The Vision of Sir Launfal, Hawthorne's The House of the Seven Gables.

In 1900, Dryden's Palamon and Arcite, Pope's Iliad, Books I, VI, XXII, XXIV, The Sir Roger de Coverley Papers in the Spectator, Goldsmith's The Vicar of Wakefield, Scott's Ivanhoe, De Quincey's The Flight of a Tartar Tribe, Cooper's The Last of the Mohicans, Tennyson's The Princess, and Lowell's The Vision of Sir Launfal.

**Part II. Study and Practice.** This portion of the examination for 1896 will be upon the following works: Shakespere's The Merchant of Venice, Milton's L'Allegro, Il Penseroso, Comus and Lycidas, and Webster's First Bunker Hill Oration. This section of the examination requires a more careful study of each of the works named. It involves subject-matter, form, and structure, and also, more particularly than Part I, tests the candidate's ability to express his knowledge with clearness and accuracy.

In 1897, Shakespere's The Merchant of Venice, Burke's Speech on Conciliation with America, Scott's Marmion, and Macaulay's Life of Samuel Johnson, will form the list.

In 1898, Shakespere's Macbeth, Burke's Speech on Conciliation with America, De Quincey's The Flight of a Tartar Tribe, and Tennyson's The Princess.

In 1899, Shakespere's Macbeth, Milton's Paradise Lost, Books I and II, Burke's Speech on Conciliation with America, and Carlyle's Essay on Burns.

In 1900, Shakespere's Macbeth, Milton's Paradise Lost, Books I and II, Burke's Speech on Conciliation with America, Macaulay's Essays on Milton and Addison.

NOTE: Reading parallel and subsidiary to all the above should be encouraged. Students are also recommended to commit to memory as much English poetry as possible. The essentials of Grammar must not be neglected, and no candidate will be accepted in English whose work is obviously defective in spelling, punctuation, idiom, or division into paragraphs.

**C. French or German.** Each Candidate for any degree whatever must pass examination either upon a certain amount of French or upon a certain amount of German, but a candidate may present the one or the other of these languages according to his wish. Students who present German for entrance must continue German during the Freshman year, and also take French in their Sophomore year.

For candidates who offer **French** the requirements are as follows: 1. Proficiency in Elementary French Grammar, implying, especially, familiarity with the following topics: Inflection of nouns and adjectives in gender and number; the pronominal adjectives; the use of pronouns, especially the forms and positions of personal pronouns; the partitive constructions; the inflection of the regular verbs and of the more usual irregular verbs, such as *dire*, *faire*, and the classes represented by *ouvrir*, *sentir*, *venir*, *paraître*, *conduire* and *craindre*.

The mention of these topics is not proposed as restrictive, but is meant rather to emphasize the importance of a thorough grounding of the pupil in those elements on which future good work necessarily depend. Mastery of Professor Whitney's Brief French Grammar will be regarded as sufficient.

2. Ability to translate simple prose at sight.

It is believed that the required facility can be gained by reading concurrently with the grammar work from two hundred to four hundred duodecimo pages out of at least three dissimilar works, but care should be taken not to read works assigned in the college courses.

3. Ability to pronounce French and to recognize French words and simple phrases when uttered.

It is recommended that from the beginning careful attention be given to the fluent and intelligent pronunciation of the French texts used in the class-room.

For students who offer **German** as a preparatory study the requirements are as follows: 1. Proficiency in Elementary German Grammar, implying, especially, familiarity with the following topics: Declension of such nouns as are readily classified, of adjectives and pronouns; conjugation of weak and of the more usual strong verbs; the more

common prepositions; the simpler uses of the modal auxiliaries; the simpler rules of syntax and of word order.

The mention of these topics is not proposed as restrictive, but is meant rather to emphasize the importance of a thorough grounding of the pupil in those elements on which future good work depends. Mastery of Professor Whitney's Brief German Grammar will be regarded as sufficient.

2. Ability to translate a passage of simple prose at sight, a vocabulary of the less usual words being furnished.

It is believed that the required facility can be gained by reading concurrently with the grammar work two hundred duodecimo pages of easy German, chiefly narrative prose, with a few lyric poems, but care should be taken not to read the works assigned in the college courses.

3. Ability to pronounce German, and to recognize German words and simple phrases when uttered.

It is recommended that from the beginning careful attention be given to the fluent and intelligent pronunciation of the German texts used in the class-room.

Candidates for the degree of Civil Engineer or for the degree of Mechanical Engineer are required to pass only the above entrance examinations.

## II. Additional Entrance Examinations to be passed by Certain Candidates

**A. Additional Entrance Examinations to be passed by Candidates for the Degree of Bachelor of Arts.** Besides the foregoing examinations in Mathematics, English, and French or German, candidates for admission to the courses leading to this degree are examined in the following subjects. Real equivalents will be received for any of the works mentioned:

**1. Greek.** 1. Authors: Xenophon's Anabasis entire, or four books of the Anabasis and three of Homer, regard being had not only to language but to subject-matter as well. Two books of the Hellenica may be offered in place of a like part of the Anabasis; and preparation in Homer may be in either Iliad or Odyssey. 2. Grammar: A familiar knowledge of inflection, word-formation and ordinary syntax. 3. Composition: The first twenty-five exercises of Jones's Composition, or Allinson's Composition as far as Part III, or Collar and Daniell's entire. 4. History: The general history of Greece to the death of Alexander.

Candidates are expected to be able to translate at sight simple Attic prose, unusual words being defined, and to write in Greek simple connected narrative based upon the Anabasis or the Hellenica.

**II. Latin.** 1. Caesar, Gallic War, books i-iv, or books i-iii and Sallust's Catiline, with questions on the subject-matter and on grammar. 2. Ovid, twenty-five hundred lines. 3. Cicero, the orations against Catiline, and the oration for Archias, with questions, as on Caesar. 4. Vergil, Aeneid, books i-vi, or Aeneid, books i-v and the Eclogues, with questions on the subject-matter and on prosody. 5. Translation, at sight, of ordinary passages from Caesar, Cicero's Orations, Vergil's Aeneid, and Ovid's Metamorphoses, with questions on grammar, prosody, history and antiquities, suggested by the passages assigned. 6. Translation into Latin of simple English sentences. 7. Translation into Latin of a continuous passage of English narrative, prepared from some portion of the prescribed prose. 8. Outline of Roman Geography, and of Roman History to the end of the reign of Marcus Aurelius. It is recommended that pupils be accustomed, from the beginning of their preparatory course, to translate into Latin, both oral and written, passages prepared by the teachers on the basis of the prose authors read.

In pronouncing Latin, *ā* should be pronounced as in *father*, *ă* as the *a* in Cuba; *ē* as in *prey*, *ĕ* as in *men*; *ī* as in *machine*; *ĭ* as in *cigar*; *ō* as in *old*; *ŏ* as in *obey*; *ū* as in *rule*; *ŭ* as in *full*; *j* as *y* in *yard*; *c* *always* as *k* in *king*; *g* always as in *get*.

Instructors in preparatory schools are urged to insist upon the use of simple and idiomatic English in the translation of Greek and Latin.

### Preliminary Examinations in the Classics

In the studies named below, candidates may be examined one year before the time at which they intend to apply for admission to the Freshman Class. These examinations will occur, for 1896, on Thursday, June 18, *and then only*. They will be held in the *South Room of Rhode Island Hall*, and in the following order:

*Greek*, from 9 A. M. to 12.30 P. M.
*Latin*, from 2.30 to 5.30 P. M.

The subjects will be: I. **In Greek:** 1. Greek Grammar. 2. Three books of Xenophon's Anabasis. II. **In Latin:** 1. Latin Grammar. 2. Caesar, or Caesar and Sallust, as above. 3. Translation into Latin of simple sentences. 4. Ovid, or Cicero, or Vergil, as above.

**B. Additional Entrance Examinations to be passed by Candidates for the Degree of Bachelor of Philosophy.** Besides the examinations in Mathematics, English, and French or German specified on pages 38-41, candidates for the degree of Bachelor of Philosophy are examined as follows:

**I. Latin.** 1. Caesar, Gallic War, books i-iv, or books i-iii and Sallust's Catiline, with questions on the subject-matter and on grammar. 2.

Ovid, twenty-five hundred lines. 3. Cicero, the Orations against Catiline, and the oration for Archias, with questions, as on Caesar. 4. Vergil, Aeneid, books i-vi, or Aeneid, books i-v and the Eclogues, with questions on the subject-matter and on prosody. 5. Translation, at sight, of ordinary passages from Caesar, Cicero's Orations, Vergil's Aeneid, and Ovid's Metamorphoses, with questions on grammar, prosody, history, and antiquities, suggested by the passages assigned. 6. Translation into Latin of simple English sentences. 7. Translation into Latin of a continuous passage of English narrative, prepared from some portion of the prescribed prose. 8. Outlines of Roman Geography.

It is recommended that pupils be accustomed, from the beginning of their preparatory course, to translate into Latin, both oral and written, passages prepared by the teachers on the basis of the prose authors read.

In pronouncing Latin, *ā* should be pronounced as in *father*, *ă* as the *a* in *Cuba*; *ē* as in *prey*, *ĕ* as in *men*; *ī* as in *machine*; *ĭ* as in *cigar*; *ō* as in *old*, *ŏ* as in *obey*; *ū* as in *rule*, *ŭ* as in *full*; *j* as *y* in *yard*; *c* always as *k* in *king*; *g* always as in *get*.

Instructors in preparatory schools are urged to insist upon the use of simple and idiomatic English in the translation of Greek and Latin.

Instead of the above Requirement in Latin either one of the three substitutes below described is accepted:

**Substitute 1. Minor Requirement in Latin Itself.** In case of pupils nineteen years of age or over, who offer proof of attainments in general subjects such as a diligent and competent student would derive from two years full attendance at a good high school or academy, the above requirement in Latin is reduced to five books of Caesar or its equivalent in Cicero, Vergil, or other standard authors. Students offering only this smaller amount of Latin cannot, however, pursue any of the Latin courses in College.

**Substitute 2. Greek.** Instead of the Latin specified above, whether the full or the minor requirement, candidates for the degree of Bachelor of Philosophy may offer **Greek.** Candidates presenting Greek as a preparatory study will be examined in all the Greek subjects specified on page 41. Students fulfilling this requirement usually wish to pursue Greek in College and are permitted to do so.

**Substitute 3. German** in addition to French or **French** in addition to German. If they prefer, students may present both the French and the German mentioned on pages 40 and 41, in which case no Latin examination whatever is required of them.

**II. History.** Either the general history of Greece to the death of Alexander, with Roman history to the end of the reign of Marcus Aurelius; or the general history of England and of the United States.

**C. Additional Entrance Examinations to be passed by Candidates for the Degree of Bachelor of Science.** Besides the examination, in Mathematics, English, and French or German specified on pages 38-41, candidates for the Degree of Bachelor of Science are examined in the following:

**I. Mathematics.** 1. Solid and Spherical Geometry. 2. Plane Trigonometry, with the use of logarithmic and trigonometric tables.

**II. Latin.** Five books of Caesar, or the equivalent thereof in Cicero or in Vergil. *Option:* If the candidate prefer he may present *both* the French and the German specified on pages 40 and 41, in which case no examination in Latin is required.

**III. History.** Either the general history of Greece to the death of Alexander, with Roman History to the end of the reign of Marcus Aurelius; or the general history of England and of the United States.

Candidates for the degree of Civil Engineer or for that of Mechanical Engineer are required to pass no entrance examinations except those in Mathematics, English, and French or German, specified on pages 38-41.

# THE COURSES OF INSTRUCTION

Instruction for graduate students is treated by itself in a later paragraph. Full information concerning it may be had by application to the Registrar. The studies for undergraduates are partly required and partly elective. The studies of the Freshman year are nearly all required, the main exception being that candidates for the degrees of Bachelor of Philosophy and Bachelor of Science have a choice of courses according as they do or do not wish to pursue an ancient language. The required studies of the Freshman year are selected for their disciplinary value, that the student may the more profitably pursue those, whatever they may be, of the subsequent years. Candidates for the degrees of Bachelor of Arts and Bachelor of Philosophy are, during the last three years, allowed large liberty in the choice of studies. Candidates for the degrees of Bachelor of Science, Civil Engineer, and Mechanical Engineer are allowed less freedom of election, in order that they may thoroughly master the branches necessary for the most perfect discipline in their respective departments.

The elective studies, which are very numerous, are so placed in the curriculum as to give all the freedom of choice

which the necessary limitations of the schedule of lectures admit. In arranging this schedule a number of parallel courses, each unitary and progressive and extending through the last three years, are made available. Every student is advised in selecting his studies to adopt, in the main, one of these courses.

Attention is here directed to the later pages of this Catalogue, where "Courses Suggested as Desirable for Students Preparing for Professions" are set forth.

# THE COURSES OF INSTRUCTION

ARRANGED ACCORDING TO YEARS AND TERMS

## For Candidates for the Degree of Bachelor of Arts

### FRESHMAN YEAR

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Greek 1, | Greek 2, | Greek 3, |
| Latin 1, | Latin 2, | Latin 3, |
| *French 1 or German 4, | French 2 or German 5, | French 3 or German 6, |
| Mathematics 1, | Mathematics 3, | Mathematics 2, |
| Military Drill. | Military Drill, | Military Drill. |
| | Gymnasium. | |

### SOPHOMORE YEAR

| | | |
|---|---|---|
| Rhetoric 2 or | Rhetoric 3 or | Rhetoric 4 or |
| Rhetoric 2 and 19, | Rhetoric 3 and 20, | Rhetoric 4 and 21, |
| German 1 or French A, | German 2 or French B, | German 3 or French C, |
| Electives, nine hours. | Gymnasium, | Electives, nine hours. |
| | Electives, nine hours. | |

### JUNIOR YEAR

| | | |
|---|---|---|
| History 1, | History 2, | Philosophy 19, |
| Rhetoric 33, | Rhetoric 34, | Rhetoric 35, |
| Gymnasium, | Gymnasium, | Electives, twelve hours. |
| Electives, twelve hours. | Electives, twelve hours. | |

### SENIOR YEAR

With the exception of Gymnasium practice the work of the Senior year consists entirely of elective studies, fifteen hours per week.

*Students who pursue French 1, 2, 3 during Freshman year must take German 1, 2, 3 during Sophomore year. Those who pursue German 4, 5, 6 during Freshman year must take French during Sophomore year. This note applies also to the courses for all other degrees.

## For Candidates for the Degree of Bachelor of Philosophy

### Freshman Year

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Mathematics 1, | Mathematics 3, | Mathematics 2, |
| French 1 or German 4, | French 2 or German 5, | French 3 or German 6, |
| Military Drill. | Military Drill, Gymnasium. | Military Drill. |

And two of the following groups:

| | | | |
|---|---|---|---|
| A | Botany 1, | Botany 2, | Botany 3, |
| B | Drawing 1, | Drawing 5, | Drawing 6, |
| C | Rhetoric 2, 4 hrs., | Rhetoric 3, 4 hrs., | Rhetoric 4, 4 hrs., |
| D | Rhetoric 2, 3 hrs., Rhetoric 19, | Rhetoric 3, 3 hrs. Rhetoric 20, | Rhetoric 4, 3 hrs., Rhetoric 21, |
| E | Greek 1, | Greek 2, | Greek 3, |
| F | Latin 1, | Latin 2, | Latin 3, |
| G | Comp. Anat. 15. | Comp. Anat. 1. | Comp. Anat. 2. |

### Sophomore Year

| | | |
|---|---|---|
| Rhetoric 2 or Rhetoric 2 and 19, | Rhetoric 3 or Rhetoric 3 and 20, | Rhetoric 4 or Rhetoric 4 and 21, |
| German 1 or French A, | German 2 or French B, | German 3 or French C, |
| Electives, nine hours*. | Electives, nine hours*, Gymnasium. | Electives, nine hours*. |

### Junior Year

| | | |
|---|---|---|
| History 1, | History 2, | Philosophy 19, |
| Rhetoric 33, | Rhetoric 34, | Rhetoric 35, |
| Gymnasium, | Gymnasium, | Electives, twelve hours. |
| Electives, twelve hours. | Electives, twelve hours. | |

### Senior Year

With the exception of Gymnasium practice the work of the Senior year consists entirely of elective studies, fifteen hours per week.

*Students on this course who carry group D during Freshman year will carry twelve or thirteen hours of electives during Sophomore year. Students whose entrance work is complete may carry Drawing 2, 3, 4, as an extra study.

## Elective Courses for Candidates for the Degrees of Bachelor of Arts and Bachelor of Philosophy

*First Term*

Philosophy 36 Jr.
" 2 Jr.
" 21 Sr.
" 29 Sr.
" 8 Sr.
" 11 Sr.
" 5 Sr.
" 34 Sr.
" 31 Sr.
Greek 6 So.
" 7* Jr. Sr.
" 10* Jr. Sr.
" 13 Jr. Sr.
" 16* Jr. Sr.
" 22 So. Jr. Sr.
" 25* Sr.
" 28 Jr. Sr.
Latin 4 So.
" 7 Jr. Sr.
" 10 Jr. Sr.
" 11* Jr. Sr.
" 16* Jr. Sr.
" 19* Sr.
" 22* Sr.
Sanskrit 1 Jr. Sr.
" 4 Sr.
Comparative Philology 1 Jr. Sr.
Comparative Philology 9 Jr. Sr.
Fine Arts 1 Jr. Sr.
" 7 Sr.
" 10 Jr. Sr.
Architecture 6 Jr. Sr.
" 9 Jr. Sr.
" 17 So. Jr. Sr.
Architecture 20 So. Jr. Sr.
Architecture 23 Sr.
Music 1 So. Jr. Sr.
" 4 Jr. Sr.
" 7 Sr.
" 10 Jr. Sr.
Hebrew 1 Jr. Sr.
Semitics 5 Jr. Sr.
Arabic 1 Jr. Sr.
Assyrian 1 Jr. Sr.
" 4 Jr. Sr.
New Testament 1 Jr. Sr.
Rhetoric 16 Jr. Sr.
" 27 Jr. Sr.
" 30 Jr. Sr.
" 19 So.
" 36 Jr.
English 10 So. Jr. Sr.
" 13 Jr. Sr.
" 24* Jr. Sr.
" 27 So. Jr. Sr.
" 1 So. Jr. Sr.
" 4 Jr. Sr.
" 34* Jr. Sr.
" 40 Jr. Sr.
" 31 Jr. Sr.
" 43* Jr. Sr.
" 46 Jr. Sr.
" 50 Jr. Sr.
" 18 Jr. Sr.
" 20* Sr.
" 16 Jr. Sr.
History 4 Jr. Sr.
" 7 Sr.
Social Science 1 Jr. Sr.
" " 5 Sr.
Political Science 1 Jr. Sr.
Political Science 5 Sr.
Elementary Law 1* Jr. Sr.
Elementary Law 4 Jr. Sr.
Political Economy 1 Jr. Sr.
Political Economy 4 Sr.
German 4 Jr. Sr.
" 7 Jr. Sr.
" 16 Jr. Sr.
" 40 So. Jr. Sr.
" 43 So. Jr. Sr.
Swedish 1 Jr. Sr.
Dano-Norwegian 1 Jr. Sr.
Dutch 1 Jr. Sr.
" 4* Sr.
German 10 Jr. Sr.
" 13 Sr.
German 37 Sr.
French 4 So. Jr. Sr.
" 13 So. Jr. Sr.
" 33 Jr. Sr.
" 10 Sr.
" 16 Sr.
" 21 Sr.
" 25 Sr.
Italian 1 Jr. Sr.
" 7 Jr. Sr.
" 10 Sr.
Spanish 1 Jr. Sr.
Mathematics 9 So. Jr. Sr.
Mathematics 13 So. Jr. Sr.
Mathematics 15 Jr. Sr.
" 18 Sr.
" 21* Sr.
Drawing 16 So. Jr. Sr.
" 7 So. Jr. Sr.
" 10 Jr. Sr.
" 27 Sr.
" 15 So. Jr. Sr.
" 2 So. Jr. Sr.
" 21 So. Jr. Sr.
" 24 So. Jr. Sr.
Civil Engineering 1 So. Jr. Sr.
Civil Engineering 5 Jr. Sr.
Civil Engineering 13 Sr.
Civil Engineering 19 Sr.
Mechanical Engineering 1 So. Jr. Sr.
Mechanical Engineering 3 Sr.
Mechanical Engineering 6 Sr.
Mechanical Engineering 10 So. Jr. Sr.
Mechanical Engineering 11 So. Jr. Sr.
Mechanics 3 So. Jr. Sr.
" 7 Jr. Sr.
Chemistry 1 So.

*Omitted in 1895-96.

"So." means that the study opposite which it is placed is open to election by members of the Sophomore Class subject to the conditions prescribed for each course. In the same way 'Jr.' and 'Sr.' refer to Juniors and Seniors.

*First Term—Continued*

Chemistry 4 Jr.
" 7 Sr.
" 10 Sr.
Physics 1 So. Jr. Sr.
" 5 So. Jr. Sr.
" 3 Jr. Sr.
" 13 Sr.
" 17 Sr.
Astronomy 1 Jr. Sr.
Astronomy 8 Sr.
Geology 1 Sr.
Comparative Anatomy 15 So. Jr. Sr.
Comparative Anatomy 12 So. Jr. Sr.
Comparative Anatomy 10 Jr. Sr.
Comparative Anatomy 19 Sr.
Comparative Anatomy 3 Jr. Sr.
Comparative Anatomy 16 Jr. Sr.
Botany 1 So. Jr. Sr.
" 4* So. Jr. Sr.
" 7* Jr. Sr.

*Second Term*

Philosophy 37 Jr.
" 3 Jr.
" 22 Sr.
" 30 Sr.
" 9 Sr.
" 12 Sr.
" 23* Sr.
" 6 Sr.
" 17 Sr.
" 16 Sr.
" 24 Sr.
" 35 Sr.
" 32 Sr.
Greek 4 So.
" 8* Jr. Sr.
" 11* Jr. Sr.
" 14 Jr. Sr.
" 17* Jr. Sr.
" 23 So. Jr. Sr.
" 26* Sr.
" 29 Jr. Sr.
Latin 5 So.
" 8 Jr. Sr.
" 14 Jr. Sr.
" 12* Jr. Sr.
" 17* Jr. Sr.
" 20* Sr.
" 23* Sr.
Sanskrit 2 Jr. Sr.
" 5 Sr.
Comparative Philology 2 Jr. Sr.
Comparative Philology 4 Jr. Sr.
Comparative Philology 10 Jr. Sr.
Fine Arts 4 Jr. Sr.
" " 9 Sr.
" " 11 Jr. Sr.
Architecture 1 So. Jr. Sr.
Architecture 7 Jr. Sr.
" 10 Jr. Sr.
" 18 So. Jr. Sr.
Architecture 21 So. Jr. Sr.
Architecture 24 Sr.
Music 2 So. Jr. Sr.
" 5 Jr. Sr.
" 8 Sr.
" 11 Jr. Sr.
Hebrew 2 Jr. Sr.
Semitics 4 Jr. Sr.
" 6 Jr. Sr.
Arabic 2 Jr. Sr.
Assyrian 2 Jr. Sr.
" 5 Jr. Sr.
New Testament 2 Jr. Sr.
Rhetoric 17 Jr. Sr.
" 28 Jr. Sr.
" 31 Jr. Sr.
" 20 So.
" 37 Jr.
English 11 So. Jr. Sr.
" 14 Jr. Sr.
" 25* Jr. Sr.
" 28 So. Jr. Sr.
" 2 So. Jr. Sr.
" 5 Jr. Sr.
" 35* Jr. Sr.
" 41 Jr. Sr.
" 32 Jr. Sr.
" 44* Jr. Sr.
" 47 Jr. Sr.
" 51 Jr. Sr.
" 19 Jr. Sr.
English 21* Sr.
" 17 Jr. Sr.
History 5 Jr. Sr.
" 8 Sr.
Social Science 2 Jr. Sr.
" " 4 Sr.
Political Science 3 Jr. Sr.
Political Science 4 Jr. Sr.
Political Science 6 Jr. Sr.
Elementary Law 2* Jr. Sr.
Elementary Law 5 Jr. Sr.
Political Economy 2 Jr. Sr.
Political Economy 6 Sr.
German 5 Jr. Sr.
" 8 Jr. Sr.
" 17 Jr. Sr.
" 41 So. Jr. Sr.
" 44 So. Jr. Sr.
Swedish 2 Jr. Sr.
Dano-Norwegian 2 Jr. Sr.
Dutch 2 Jr. Sr.
" 5* Sr.
German 11 Jr. Sr.
" 14 Sr.
" 38 Sr.
French 5 So. Jr. Sr.
" 14 So. Jr. Sr.
" 34 Jr. Sr.
" 11 Sr.
" 17 Sr.

*Omitted in 1895-96.

*Second Term—Continued*

French 31 Sr.
" 26 Sr.
Italian 2 Jr. Sr.
" 8 Jr. Sr.
" 11 Sr.
Spanish 2 Jr. Sr.
Mathematics 10 So. Jr. Sr.
Mathematics 14 So. Jr. Sr.
Mathematics 16 Jr. Sr.
" 19 Sr.
" 22* Sr.
Drawing 17 So. Jr. Sr.
" 8 So. Jr. Sr.
" 11 Jr. Sr.
" 28 Sr.
" 19 So. Jr. Sr.
" 3 So. Jr. Sr.
" 22 So. Jr. Sr.
" 25 So. Jr. Sr.
Civil Engineering 2 So. Jr. Sr.
Civil Engineering 4 So. Jr. Sr.
Civil Engineering 6 Jr. Sr.
Civil Engineering 10 Sr.
Civil Engineering 14 Sr.
Civil Engineering 15 Sr.
Civil Engineering 16 Sr.
Civil Engineering 20 Sr.
Mechanical Engineering 4 Sr.
Mechanical Engineering 7 Sr.
Mechanical Engineering 10 So. Jr. Sr.
Mechanical Engineering 11 So. Jr. Sr.
Mechanics 4 So. Jr. Sr.
" 8 Jr. Sr.
Chemistry 2 So.
" 5 Jr.
" 8 Sr.
" 11 Sr.
" 13 Sr.
" 15 Sr.
" 17 Sr.
Physics 2 So. Jr. Sr.
Physics 9 So. Jr. Sr.
" 11 Jr. Sr.
" 14 Sr.
" 18 Sr.
" 20 Sr.
Astronomy 2 Jr. Sr.
" 3 Jr. Sr.
" 9 Sr.
Zoölogy 1 Jr. Sr.
Geology 2 Sr.
Comparative Anatomy 1 So. Jr. Sr.
Comparative Anatomy 6 So. Jr. Sr.
Comparative Anatomy 9 Jr. Sr.
Comparative Anatomy 20 Sr.
Comparative Anatomy 4 Jr. Sr.
Comparative Anatomy 17 Jr. Sr.
Botany 2 So. Jr. Sr.
" 5* So. Jr. Sr.
" 8* Jr. Sr.
" 10 Jr. Sr.
Library Lecture 1 Jr. Sr.

*Third Term*

Philosophy 38 Jr.
" 4 Jr. Sr.
" 23 Sr.
" 10 Sr.
" 13 Sr.
" 15 Sr.
" 18 Sr.
" 26 Sr.
" 25 Sr.
" 33 Sr.
Greek 5 So.
" 9* Jr. Sr.
" 12* Jr. Sr.
" 15 Jr. Sr.
" 18* Jr. Sr.
" 20* Jr. Sr.
" 24 So. Jr. Sr.
" 27* Sr.
" 30 Jr. Sr.
Latin 6 So.
" 9 Jr. Sr.
Latin 15 Jr. Sr.
" 13 Jr. Sr.
" 18* Jr. Sr.
" 21* Sr.
" 24* Sr.
Sanskrit 3 Jr. Sr.
" 6 Sr.
Comparative Philology 3 Jr. Sr.
Comparative Philology 5 Jr. Sr.
Comparative Philology 11 Jr. Sr.
Fine Arts 6 Jr. Sr.
" " 8 Jr. Sr.
" " " 3 Jr. Sr.
Architecture 2 So. Jr. Sr.
Architecture 8 Jr. Sr.
Architecture 11 Jr. Sr.
Architecture 19 So. Jr. Sr.
Architecture 22 So. Jr. Sr.
Architecture 25 Sr.
Music 3 So. Jr. Sr.
" 6 Jr. Sr.
" 9 Sr.
" 12 Jr. Sr.
" 13 Jr. Sr.
Hebrew 3 Jr. Sr.
Semitics 7 Jr. Sr.
Arabic 3 Jr. Sr.
Assyrian 3 Jr. Sr.
New Testament 3 Jr. Sr.
New Testament 4 Jr. Sr.
Rhetoric 18 Jr. Sr.
" 29 Jr. Sr.
" 32 Jr. Sr.

* Omitted in 1895-96.

*Third Term—Continued*

Rhetoric 21 So.
" 38 Jr.
English 12 So. Jr. Sr.
" 15 Jr. Sr.
" 26* Jr. Sr.
" 39 So. Jr. Sr.
" 3 So. Jr. Sr.
" 6 Jr. Sr.
" 36* Jr. Sr.
" 42 Jr. Sr.
" 33 Jr. Sr.
" 45* Jr. Sr.
" 48 Jr. Sr.
" 52 Jr. Sr.
" 37 Jr. Sr.
" 22* Sr.
" 18 Jr. Sr.
History 3 Jr. Sr.
" 6 Jr. Sr.
" 9 Sr.
" 11 Jr. Sr.
" 15* Jr. Sr.
" 16* Jr. Sr.
Social Science 3 Jr. Sr.
Social Science 6 Sr.
Political Science 2 Jr. Sr.
Political Science 7 Jr. Sr.
Elementary Law 3* Jr. Sr.
Elementary Law 6 Jr. Sr.
Political Economy 3 Jr. Sr.
Political Economy 5 Sr.
German 6 Jr. Sr.
" 9 Jr. Sr.
" 18 Jr. Sr.
" 42 So. Jr. Sr.
" 45 So. Jr. Sr.
Swedish 3 Jr. Sr.
Dano-Norwegian 3 Jr. Sr.
Dutch 3 Jr. Sr.
Dutch 6* Sr.
German 12 Jr. Sr.
" 15 Sr.
" 39 Sr.
French 6 So. Jr. Sr.
" 15 So. Jr. Sr.
" 35 Jr. Sr.
" 12 Sr.
" 18 Sr.
" 32 Sr.
" 27 Sr.
Italian 3 Jr. Sr.
" 9 Jr. Sr.
" 12 Sr.
Spanish 3 Jr. Sr.
Mathematics 8 So. Jr. Sr.
Mathematics 11 So. Jr. Sr.
Mathematics 30* So. Jr. Sr.
Mathematics 12 So. Jr. Sr.
Mathematics 20 Sr.
" 23* Sr.
Drawing 18 So. Jr. Sr.
" 9 So. Jr. Sr.
" 12 Jr. Sr.
" 20 So. Jr. Sr.
" 4 So. Jr. Sr.
" 23 So. Jr. Sr.
" 26 So. Jr. Sr,
Civil Engineering 3 So. Jr. Sr.
Civil Engineering 7 Jr. Sr.
Civil Engineering 8 So. Jr. Sr.
Civil Engineering 11 Sr.
Civil Engineering 12 Sr.
Civil Engineering 17 Sr.
Civil Engineering 18 Sr.
Civil Engineering 21 Sr.
Mechanical Engineering 9 Jr. Sr.
Mechanical Engineering 5 Sr.
Mechanical Engineering 8 Sr.
Mechanical Engineering 10 So. Jr. Sr.
Mechanical Engineering 11 So. Jr. Sr.
Mechanics 6 So. Jr. Sr.
Chemistry 3 So.
" 6 Jr.
" 9 Sr.
" 12 Sr.
" 14 Sr.
" 16 Sr.
" 18 Sr.
" 20 Sr.
Physics 4 So. Jr. Sr.
" 10 So. Jr. Sr.
" 16 Sr.
" 15 Sr.
" 19 Sr.
" 21 Sr.
Astronomy 6 Jr. Sr.
" 4 Jr. Sr.
" 10 Sr.
Meteorology 1* Jr. Sr.
Zoölogy 2 Jr. Sr.
Geology 3 Sr.
Anthropology 1 Sr.
Comparative Anatomy 2 So. Jr. Sr.
Comparative Anatomy 16 So. Jr. Sr.
Comparative Anatomy 8 Jr. Sr.
Comparative Anatomy 18 Jr. Sr.
Botany 3 So. Jr. Sr.
" 6* So. Jr. Sr.
" 11 Jr. Sr.
Library Lecture 2 Jr. Sr.

*Omitted in 1895-96.

## For Candidates for the Degree of Bachelor of Science

### Freshman Year

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Mathematics 4, 5, | Mathematics 6, | Mathematics 7, |
| Mathematics 9, | Mathematics 10, | Mathematics 12, |
| French 1 or German 4, | French 2 or German 5, | French 3 or German 6, |
| Military Drill. | Military Drill, | Military Drill. |
| | Gymnasium. | |

And two of the following groups:

| | | | |
|---|---|---|---|
| A | Botany 1, | Botany 2, | Botany 3, |
| B | Drawing 1, | Drawing 5, | Drawing 6. |
| C | Rhetoric 2, 4 hrs., | Rhetoric 3, 4 hrs., | Rhetoric 4, 4 hrs.. |
| D | Rhetoric 2, 3 hrs., Rhetoric 19, | Rhetoric 3, 3 hrs., Rhetoric 20, | Rhetoric 4, 3 hrs., Rhetoric 21, |
| E | Greek 1, | Greek 2, | Greek 3, |
| F | Latin 1, | Latin 2, | Latin 3, |
| G | Comp. Anat. 15. | Comp. Anat. 1. | Comp. Anat. 2. |

### Sophomore Year

| | | |
|---|---|---|
| Rhetoric 2 or | Rhetoric 3 or | Rhetoric 4 or |
| Rhetoric 2 and 19, | Rhetoric 3 and 20, | Rhetoric 4 and 21, |
| German 1 or French A, | German 2 or French B, | German 3 or French C, |
| Physics 1, | Physics 2, | Physics 4, |
| Chemistry 1, | Chemistry 2, | Chemistry 3, |
| Electives, three hours*. | Gymnasium, | Electives, three hours*. |
| | Electives, three hours.* | |

### Junior Year

| | | |
|---|---|---|
| History 1, | History 2, | Philosophy 19, |
| Rhetoric 33, | Rhetoric 34. | Rhetoric 35, |
| Gymnasium, | Gymnasium, | Electives, twelve hours. |
| Electives, twelve hours. | Electives, twelve hours. | |

With the exception of Gymnasium practice, the work of the Senior year consists of fifteen hours of electives per week, chosen from the following list:

*Students who carry group D during Freshman year will carry an additional elective during Sophomore year.

**Elective Courses for Candidates for the Degree of Bachelor of Science**

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Mathematics 13 So. | Mathematics 8 So. | Mathematics 11 So. |
| " 14 Jr. Sr. | " 15 Jr. Sr. | " 16 Jr. Sr. |
| Civil Engineering 1 So. Jr. | Civil Engineering 2 So. Jr. | Civil Engineering 3 So. Jr. |
| French 4 So. | French 5 So. | French 6 So. |
| German 4 So. Jr. | German 5 So. Jr. | German 6 So. Jr. |
| Botany 1 So. Jr. | Botany 2 So. Jr. | Botany 3 So. Jr. |
| Comp. Anat. 12 So. Jr. | Comp. Anat. 6 So. Jr. | Comp. Anat. 16 So. Jr. |
| Mechanics 3 Jr. Sr. | Mechanics 4 Jr. Sr. | Mechanics 6 Jr. Sr. |
| " 7 Sr. | " 8 Sr. | Astronomy 4 Jr. |
| Astronomy 1 Jr. | Astronomy 3 Jr. | Chemistry 6 Jr. |
| Chemistry 4 Jr. | Chemistry 5 Jr. | Physics 10 Jr. |
| Physics 5 Jr. | Physics 9 Jr. | Spanish 3 Jr. Sr. |
| Spanish 1 Jr. Sr. | Spanish 2 Jr. Sr. | Italian 3 Jr. Sr. |
| Italian 1 Jr. Sr. | Italian 2 Jr. Sr. | History 6 Jr. Sr. |
| History 4 Jr. Sr. | History 5 Jr. Sr. | " 9 Sr. |
| " 7 Sr. | " 8 Sr. | Philosophy 15 Sr. |
| Philosophy 5 Sr. | Philosophy 6 Sr. | " 10 Sr. |
| " 8 Sr. | " 9 Sr. | English 6 Sr. |
| English 4 Sr. | English 5 Sr. | " 3 So. Jr. Sr. |
| " 1 So. Jr. Sr. | " 2 So. Jr. Sr. | Political Science 3 Sr. |
| Political Science 1 Sr. | Political Science 2 Sr. | " Economy 3 Sr. |
| " Economy 1 Sr. | " Economy 2 Sr. | Anthropology 1 Sr. |
| Comp. Anat. 3 Sr. | Comp. Anat. 4 Sr. | Meteorology 1 Sr. |
| Geology 1 Sr. | Geology 2 Sr. | |

## For Candidates for the Degree of Civil Engineer

### Freshman Year

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Mathematics 1, | Mathematics 3, | Mathematics 2, |
| French 1 or German 4, | French 2 or German 5, | French 3 or German 6. |
| Drawing 2, | Drawing 3, | Drawing 4, |
| Drawing 1, | Drawing 5, | Drawing 6, |
| Drawing 29, | Drawing 30, | Drawing 31, |
| Rhetoric 2, | Rhetoric 3, | Rhetoric 4, |
| Military Drill. | Military Drill, | Military Drill. |
| | Gymnasium. | |

### Sophomore Year

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| German 1 or French A, | German 2 or French B, | German 3 or French C, |
| Mathematics 9, | Mathematics 10, | Mathematics 12, |
| Physics 1, | Physics 2, | Physics 4, |
| Civil Engineering 1, | Civil Engineering 2, | Civil Engineering 3, |
| Chemistry 1, | Chemistry 2, | Chemistry 3, |
| Drawing 7. | Civil Engineering 4, | Civil Engineering 8. |
| | Gymnasium. | |

### Junior Year

| | | |
|---|---|---|
| Mechanics 3, | Mechanics 4, | Philosophy 19, |
| Mathematics 13, | Mathematics 14, | Mechanics 6, |
| Astronomy 1, | Astronomy 3, | Civil Engineering 12, |
| Physics 5, | Physics 9, | Astronomy 4, |
| Civil Engineering 5, | Civil Engineering 6, | Physics 10, |
| Gymnasium. | Civil Engineering 16, | Civil Engineering 7. |
| | Gymnasium. | |

### Senior Year

| | | |
|---|---|---|
| Civil Engineering 19, | Civil Engineering 10, | Civil Engineering 11, |
| Civil Engineering 13, | Civil Engineering 14, | Civil Engineering 18, |
| Mechanics 7, | Civil Engineering 15, | Civil Engineering 17, |
| Geology 1, | Civil Engineering 20, | Civil Engineering 21, |
| Thesis. | Mechanics 8, | Geology 3, |
| | Thesis. | Thesis. |

## For Candidates for the Degree of Mechanical Engineer

### Freshman Year

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Mathematics 1, | Mathematics 3, | Mathematics 2, |
| Drawing 1, | Drawing 5, | Drawing 6, |
| Drawing 2, | Drawing 3, | Drawing 4, |
| French 1 or German 4, | French 2 or German 5, | French 3 or German 6, |
| Rhetoric 2, | Rhetoric 3, | Rhetoric 4, |
| Military Drill. | Military Drill, | Military Drill. |
| | Gymnasium. | |

### Sophomore Year

| | | |
|---|---|---|
| Mathematics 9, | Mathematics 10, | Mathematics 12, |
| Drawing 7, | Drawing 8, | Drawing 9, |
| Mech. Engineering 1, | Mech. Engineering 10, | Mech. Engineering 11, |
| Chemistry 1, | Chemistry 2, | Chemistry 3, |
| Physics 1, | Physics 2, | Physics 4, |
| German 1 or French A. | German 2 or French B, | German 3 or French C. |
| | Gymnasium. | |

### Junior Year

| | | |
|---|---|---|
| Mathematics 13, | Mathematics 14, | Philosophy 19, |
| Mechanics 3, | Mechanics 4, | Mech. Engineering 9, |
| Drawing 10, | Drawing 11, | Mechanics 6, |
| Mech. Engineering 12, | Mech. Engineering 13, | Drawing 12, |
| Physics 5, | Physics 9, | Mech. Engineering 14, |
| Gymnasium. | Gymnasium. | Physics 10. |

### Senior Year

| | | |
|---|---|---|
| Mechanics 7, | Mechanics 8, | Thesis Work, |
| Mech. Engineering 3, | Mech. Engineering 4, | Mech. Engineering 5, |
| Mech. Engineering 6, | Mech. Engineering 7, | Mech. Engineering 8, |
| Drawing 27*, | Drawing 28*, | Original Design. |
| Mech. Engineering 1 , | Mech. Engineering 16, | |
| Gymnasium. | Gymnasium. | |

*Students desiring to pursue Electrical Work may, if they so elect, substitute Physics 3, 11, and 15 for Drawing 27 and 28.

# II. The Courses of Instruction Arranged According to Departments

## I. PHILOSOPHY

President Andrews, Professors Seth, Delabarre, Everett, Jacobs, and Mr. Tower

19. *Logic.* Three hours. Third Term. Required of all Juniors.

Professor Seth

36, 37, 38. *Philosophical Introduction.* An elementary course on the main problems of philosophy and their typical solutions, intended to acquaint the student with the standpoint and method of philosophical discussion and to introduce him to the literature of the subject. Three hours. First, Second and Third Terms. Elective for Juniors.

Professors Seth, Delabarre and Everett

2, 3. *Psychology.* General synthetic course. Three hours. First and Second Terms. Elective for Juniors.

Professor Delabarre

4. *Psychology.* Laboratory Course. Experiments by the students in the main lines of psychological research. Three hours. Third Term. Elective for Juniors, Seniors, and qualified graduates.

Professor Delabarre and Mr. Tower

20, 21, 22. *Psychology.* Advanced Course. Seminary for the discussion of important and interesting questions in Psychology. First Term: The Fundamental Principles of Psychology; Second Term: Abnormal and Unusual States of Consciousness; Third Term: Subject undetermined. Three hours. Elective for Seniors and graduates.

Professor Delabarre

29, 30. *Psychology.* Advanced and original experimental work. One hour, two hours attendance. First and Second Terms. Elective for Seniors and graduates who have passed in Course 4.

Professor Delabarre

8. *History of Greek Philosophy.* Three hours. First Term. Elective for Seniors and graduates.

Professor Seth

9. *History of Mediaeval and early Modern Philosophy.* Three hours. Second Term. Elective for Seniors and graduates who have passed in Course 8.

PROFESSOR SETH

10. *History of Recent and Contemporary Philosophy.* Three hours. Third Term. Elective for Seniors and graduates who have passed in Courses 8 and 9.

PROFESSOR SETH

11, 12, 13. *Course in Authors.* Three hours. First, Second and Third Terms. Elective for Seniors and graduates.

PROFESSOR DELABARRE

In 1895-96 the following authors will be read: First term, Plato; Second Term, Descartes and Spinoza; Third Term, Locke, Berkeley and Hume.

5. *Theoretical Ethics Part I.* The Moral Ideal. Three hours. First Term. Elective for Seniors and graduates.

PROFESSOR SETH

23. *Theoretical Ethics Part II.* The Moral Life. The Virtues and Institutions, with special reference to the Ethical Basis of the State. Two hours. Second Term. Elective for Seniors and graduates. Course 17 may well be taken with this, making a three-hour course. Not offered in 1895-96.

PROFESSOR SETH

6, 15. *Practical Ethics.* Three hours. Second and Third Terms. Elective for Seniors and graduates.

THE PRESIDENT

17, 18. *Conversations in Casuistry.* One hour. Second and Third Terms. Elective for Seniors and graduates.

THE PRESIDENT

16. *Metaphysic of Ethics.* The Metaphysical Basis of Morality and Religion. Three hours. Second Term. Elective for Seniors and graduates who have passed in Course 5.

PROFESSOR SETH

24, 26. *Philosophy of Religion.* The Content of the Religious, particularly of the Christian Consciousness, in the light of its Development. Two hours. Second and Third Terms. Elective for Seniors and graduates. Course 25 may be conveniently joined with this.

PROFESSOR SETH

25. *Instruction in the Christian Religion.* One hour. Third Term. Elective for Seniors and graduates.

THE PRESIDENT

14. *Philosophical Seminary.* Papers, followed by discussion, on the more difficult problems of philosophy. Two hours. Through the year. Elective for graduates. The subject of study for 1895-96 is the Logic of Hegel.

PROFESSOR SETH

34, 35. *Kantian Philosophy.* A study of the Philosophy of Kant and of the later developments of his system. Three hours. First and Second Terms. Elective for Seniors and graduates.

MR. TOWER

*Philosophical Club.* An organization consisting of graduates and Seniors, with the instructors in the department, for the independent discussion of philosophical questions. See further, under Philosophy, in General Description of the Departments.

## PEDAGOGY

PROFESSOR JACOBS

1. *The History of Educational Theories and Institutions.* Lectures. Essays. Private reading of Educational Classics. Three hours. First Term. Elective for Seniors and graduates.

2. *The Institutes of Pedagogy.* Lectures. Essays and Conferences. Three hours. Second Term. Elective for Seniors and graduates.

3. *Practical Pedagogy.* School systems in this country and in Europe, school hygiene, school management and discipline, methods in teaching certain subjects, observation of typical schools. Three hours. Third Term. Elective for Seniors and graduates.

4, 5, 6. *Seminary in Pedagogy.* Subjects: The Period of Adolescence, Educational Values, the Status of Educational Thought in this country and in Europe. Two hours. Through the year. Elective for graduates. Not given in 1895-96.

*Conference in Pedagogy.* Subject to be determined by the Class. Two hours. For practical teachers and graduates. Not given in 1895-96.

## II. GREEK LITERATURE AND HISTORY

PROFESSORS MANATT AND ALLINSON, AND DR. WILLIAMS

1. *Lysias.* Practice in sight-reading and in hearing and speaking Greek, on the basis of the text in hand. Four hours. First Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSOR ALLINSON AND DR. WILLIAMS

2. *Herodotus and Thucydides.* Practice in sight-reading and in using Greek, as above. Four hours. Second Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSOR ALLINSON AND DR. WILLIAMS

3. *Homer.* The Odyssey. History of Greek Literature. The Homeric Question. The Life of the Heroic Age as revealed in the Poems and illustrated by recent archaeological research. Practice in sight-reading and in rendering into Attic prose. Four hours. Third Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSOR ALLINSON AND DR. WILLIAMS

One hour a week in the above courses is devoted to Greek Composition and History under Professor Allinson.

6. *Demosthenes.* Selected speeches. Collateral reading. Plutarch's Life of Demosthenes. Development of Attic Oratory. Judicial and parliamentary procedure at Athens. Practical exercises in the use of Greek on the subject-matter in hand. Three hours. First Term. Elective for Sophomores.

PROFESSOR MANATT

4. *Plato.* Apology and Crito, with parts of the Phaedo, and parallel reading in the *Memorabilia* of Xenophon. Three hours. Second Term. Elective for Sophomores.

PROFESSOR ALLINSON

5. *Aeschylus* and *Sophocles.* Two plays. Collateral reading of Aristophanes' *Clouds* and Milton's *Samson.* Development of the Drama. The Theatre at Athens. Practical exercises in the use of Greek on the subject-matter in hand. Three hours. Third Term. Elective for Sophomores.

PROFESSOR MANATT AND DR. WILLIAMS

7, 8, 9. *The Historians.* Herodotus, Thucydides and Xenophon, with parallel reading in Plutarch's Lives, followed by an outline sketch of Greek history down to the present day. Three hours. Through the year. Elective for Juniors and Seniors who have completed Courses 1-6, or equivalent work. Not given in 1895-96.

PROFESSOR MANATT

10. *Isaeus.* The extant speeches read and discussed in their bearings on Athenian family life and testamentary law. Collateral reading: Jebb's Attic Orators. Three hours. First Term. Elective for all students who have completed Courses 1-6, or equivalent work. Not given in 1895-96.

PROFESSOR MANATT

11. *Demosthenes.* Private Speeches selected to illustrate the working of Athenian Institutions. Three hours. Second Term. Elective as Course 10. Not given in 1895-96.

PROFESSOR MANATT

12. *Aeschines* and *Demosthenes.* The Speeches on the Crown. Study of the Macedonian Period and of Athenian political life. Three hours. Third Term. Elective as Courses 10 and 11. Not given in 1895-96.

PROFESSOR MANATT

13, 14, 15. *Homer.* The Odyssey, with portions of the Iliad and Hymns in the original, the remainder of the Poems in translation. Three hours. Through the year. Elective for Juniors and Seniors.

PROFESSOR MANATT

16. *Aeschylus* and *Sophocles.* One play of each author in Greek and all the plays in English, with lectures on the Drama. Three hours. First Term. Elective for Juniors, Seniors and graduates. Not given in 1895-96.

PROFESSOR ALLINSON

17. *Euripides.* Chief plays in Greek and in English. Archæology of the Greek theatre. Three hours. Second Term. Elective for Juniors, Seniors and graduates. Not given in 1895-96.

PROFESSOR ALLINSON

18. *Aristophanes.* Plays in Greek and in English. Greek Metres and Greek Private Life. Three hours. Third Term. Elective for Juniors, Seniors and graduates. Given in 1896-97, not in 1895-96.

PROFESSOR ALLINSON

20. *The Topography and Monuments of Greece.* On the basis of Pausanias. One hour. Third Term. Elective for Juniors and Seniors. Not given in 1895-96.

PROFESSOR MANATT

22, 23, 24. *Modern Greek.* One hour. Through the year. Elective for Sophomores, Juniors and Seniors.

PROFESSOR MANATT

25, 26, 27. *Plato and Aristotle.* Plato's Republic and Aristotle's *Politeia* of Athens and Politics. Two hours. Through the year. Seminary for Seniors and graduates. Not given in 1895-96.

PROFESSOR MANATT

28, 29, 30. *Plato and Lucian.* Three hours. Through the year. Elective for Juniors and Seniors.

Professor Allinson

31, 32, 33. *The Orators.* Antiphon, Andocides, Isaeus. Greek Historical Inscriptions. Two hours. Through the year. Elective for graduates.

Professor Manatt

34, 35, 36. *Greek Seminary.* Aristotle's Athenian Constitution, Lucian. Two hours at one session. Elective for graduates.

37, 38, 39. *Classical Philology.* Two hours. Through the year. Elective for Juniors, Seniors and graduates.

Professor Allinson

## III. ROMAN LITERATURE AND HISTORY

Professor Harkness, Mr. Greene, Dr. Linscott and Mr. Shippee

1. *Livy.* Early Roman History. Four hours. First Term. Required of candidates for the degree of Bachelor of Arts.

Mr. Greene, Dr. Linscott and Mr. Shippee

2. *Cicero.* Letters. Cicero and his times. Four hours. Second Term. Required of candidates for the degree of Bachelor of Arts.

Mr. Greene, Dr. Linscott and Mr. Shippee

3. *Tacitus.* Germania and Agricola. History of the Early Empire. Four hours. Third Term. Required of candidates for the degree of Bachelor of Arts.

Mr. Greene, Dr. Linscott and Mr. Shippee

4. *Horace.* Odes and Epodes. Ovid's Lyrics. Lectures on Lyric Poetry. Three hours. First Term. Elective for Sophomores.

Professor Harkness and Mr. Greene

5. *Catullus, Tibullus and Propertius.* Lyric Poetry continued. Three hours. Second Term. Elective for Sophomores.

Professor Harkness and Mr. Greene

6. *The Satires of Horace and Juvenal.* Three hours. Third Term. Elective for Sophomores.

Professor Harkness and Mr. Greene

7. *The Origin of Latin Poetry and the Development of the Drama.* Readings from Plautus and Terence. Three hours. First Term. Elective for Juniors and Seniors.

Professor Harkness

8. *The Poetry of the Republic continued and the Poetry of the Augustan Age.* Readings from Lucretius and other Authors of this period. Three hours. Second Term. Elective for Juniors and Seniors.

PROFESSOR HARKNESS

9. *The Poetry of the Silver Age.* Readings from Authors of the period. Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR HARKNESS

10, 14, 15. *Private Life and Antiquities of Rome.* Illustrated by lantern views and photographs. One hour. Through the year. Elective for Juniors, Seniors and graduates. These courses will alternate with 16, 17, 18.

PROFESSOR HARKNESS

11. *Prose of the Republican Period.* The Development of Oratory. Readings from specimens of Early Latin, from Cicero's Brutus, and from Quintilian. Three hours. First Term. Elective for Juniors and Seniors. Given in 1896-97.

PROFESSOR HARKNESS

12. *Prose of the Augustan Age.* The development of Historical Writing: Readings from the Historians. Three hours. Second Term. Elective for Juniors and Seniors. Given in 1896-97.

PROFESSOR HARKNESS

13. *Prose of the Silver Age.* Roman Philosophers. Readings from Seneca and from other authors of this period. Three hours. Third Term. Elective for Juniors and Seniors. Given in 1896-97.

PROFESSOR HARKNESS

The object of Courses 11-13 is to give a connected idea of the development and history of Latin Prose. These courses alternate with corresponding courses on the history of Latin Poetry.

16, 17, 18. *Pliny the Younger.* Letters. Also selected passages of other authors illustrating the private life of the Romans. One hour. Through the year. Elective for Juniors, Seniors and graduates. Given in 1896-97, and then alternating with Courses 10, 14, 15.

PROFESSOR HARKNESS

19, 20, 21. *Seminary Courses in Epigraphy.* Study of Epigraphical alphabets, illustrated by Huebner's *Exempla Scripturæ Epigraphicæ Latinæ.* Introductory lectures preparatory to the investigation of special topics in the *Corpus Inscriptionum Latinarum.* Investigations by the class of special questions relating to the Latin language and to Roman life. Two hours. Through the year. Elective for graduates and qualified undergraduates. Given in 1895-96, then alternating with Courses 22, 23, 24.

PROFESSOR HARKNESS

22, 23, 24. *Seminary in Palæography and Textual Criticism.* Introductory lectures illustrated by fac-similes of manuscripts. Critical study of authors with special reference to the manuscripts and to the establishment of the correct text. Two hours. Through the year. Elective for graduates and qualified undergraduates. Given in 1896-97, then alternating with Courses 19, 20, 21.

PROFESSOR HARKNESS

25, 26, 27. *Seminary Courses in Numismatics.* The Roman monetary system. Study of Roman coins as illustrating Roman life, history and art. Pictures and specimens of Roman coins. One hour. Through the year. Elective for graduates. Given in 1895-96, then alternating with courses 28, 29, 30.

PROFESSOR HARKNESS

28, 29, 30. *Seminary Courses in Roman History.* Investigation of special problems of Roman life and history from inscriptions and other original sources. Elective for graduates. Given in 1896-97, and then alternating with Courses 25, 26, 27. One hour. Through the year.

PROFESSOR HARKNESS

## IV. INDO-EUROPEAN PHILOLOGY

DR. LINSCOTT, PROFESSORS ALLINSON AND SCOTT

### SANSKRIT

DR. LINSCOTT

1, 2, 3. *Elements.* Whitney's Grammar and Lanman's Reader. Phonology and Morphology. Three hours. Through the year. Elective for Juniors, Seniors and graduates.

4, 5, 6. *Advanced Course.* Rapid reading of Vedic or classical literature. Three hours. Through the year. Elective for those who have completed Course 3.

7. *Aveston* (Zend). Jackson's Grammar and Reader. Three hours. Third Term. Elective for Juniors, Seniors and graduates.

### COMPARATIVE PHILOLOGY

1. *Introductory Study.* Lectures on the history and methods of Linguistic Science, the history and classification of languages, and linguistic palaeontology. Three hours. First Term. Elective for Juniors, Seniors and graduates.

DR. LINSCOTT

2. *Comparative Greek Grammar.* Phonology and Morphology and reading of dialect inscriptions. Three hours. Second Term. Elective for Juniors, Seniors and graduates.

Dr. Linscott

3. *Comparative Latin Grammar.* Phonology and Morphology and reading of Old Latin and Oscan-Umbrian. Three hours. Third Term. Elective for Juniors, Seniors and graduates.

Dr. Linscott

4. *Lithuanian.* Elements. Schleicher's Grammar and Reader. One hour. Second Term. Elective for Juniors, Seniors and graduates.

Dr. Linscott

5. *Old Bulgarian.* Leskien, *Handbuch der altbulgarischen Sprache.* One hour. Third Term. Elective for Juniors, Seniors and graduates.

Dr. Linscott

6, 7, 8. *Germanic Philology.* Same as 34, 35, 36 under Germanic Languages and Literatures, which see. Two hours. Through the year. Elective for graduates. Not given in 1895-96.

Professor Scott

9, 10, 11. *Classical Philology.* Same as 37, 38, 39 under Greek History and Literature. Two hours. Through the year. Elective for Juniors, Seniors and graduates.

Professor Allinson

12, 13, 14. *Pali.* Introductory Course. Miller's Pali Grammar, Elwell's Jatakas. Childer's Mahaparinibbana Suta. Lectures. One hour. Through the year.

Professor Scott

## V. THE FINE ARTS

Professor Poland, Messrs. Isham and Ashton

### HISTORY AND CRITICISM

Professor Poland

1. *Ancient Art or Classical Archaeology.* General course in the history of ancient art, chiefly Greek and Roman. Text-book. Lectures, illustrated by casts, lantern views, photographs, and engravings, with collateral reading. Three hours. First Term. Elective for Juniors, Seniors and graduates.

4. *Early Christian and Mediaeval Art.* Notice of Byzantine, Arabian and Oriental Art. Study of Romanesque and Gothic Art. Text-book. Lectures. Lantern views. Three hours. Second Term. Elective for Juniors, Seniors and graduates.

6. *The Art of the Renaissance.* Text-book. Lectures. Lantern views. Three hours. Third Term. Elective for Juniors, Seniors and graduates.

The above courses 1, 4, 6, may be taken independently, but students are advised to elect all three. Students are strongly advised to take Course 1, if possible, before any other course in the History of Art.

7. *Modern Art.* The seventeenth and eighteenth centuries. Text-book. Lectures and assigned reading. Lantern views. Three hours. First Term. Elective for those who have completed Course 6.

9. *Modern Art.* The nineteenth century. A continuation of Course 7. Three hours. Second Term. Elective for those who have completed Course 7.

8. *Theory and Criticism of the Fine Arts.* Text-book. Lectures. Three hours. Third Term. Elective for those who have completed any other course in the History of Art.

Courses 7, 9, 8 form a consecutive outline course.

10. *Critical Study of Classical Architecture.* Vitruvius read in the original Latin, with discussion of the principles followed by the Greek and Roman Architects, and of the influence of Vitruvius in the Renaissance. Three hours. First Term. Elective for Juniors, Seniors and graduates who have completed the Freshman course in Latin or its equivalent.

11. *Greek and Roman Sculpture Studied from the Sources.* Three hours. Second Term. Elective for Juniors, Seniors and graduates who have completed the Freshman Latin and Greek or done equivalent work.

3. *Pausaniae descriptio arcis Athenarum.* Special course in the study of the Acropolis of Athens. Lectures and illustrations. Three hours. Third Term. Elective for Juniors, Seniors and graduates who have completed Course 1 and also Freshman Latin and Greek, or have completed Course 10 or 11.

Courses 10, 11 and 3 constitute a consecutive critical course in Classical Archaeology. Those who take these three courses will not take Course 1, as its content is presented more fully here. These courses are especially useful to those who wish to do advanced work in classical archaeology, philology or history.

Courses for graduates are arranged as needed.

## ARCHITECTURE

### Mr. Isham

1, 2. *The Orders.* Rendering in line and in washes. Three hours, six hours drawing. Second and Third Terms. Elective for those who have passed in Drawing 7.

6, 7, 8. *Design.* Problems for solution, Preliminary sketches submitted for approval. Final drawings, plans, elevations, sections and perspectives rendered. Criticism. Three hours, six hours drawing. Through the year. Elective for those who have passed in Course 2.

9, 10, 11. *Historic.* Drawing of historic examples from data indicated by instructor. Greek, Roman and Byzantine work. Plans and elevations. Lectures. Three hours. Through the year. Elective for those who have passed in Course 2, and who take Fine Arts 1, 2, 3.

12, 13, 14. *Advanced Design.* Continuation of Course 8. Advanced problems. Sketches and final drawings. Three hours, six hours drawing. Through the year. Elective for those who have passed in Courses 6, 7, 8.

17, 18, 19. *Construction.* Masonry. Timber Framing. Iron and Steel. Text books and lectures. Three hours. Through the year. Elective for those who have taken Mathematics 1, 2, 3.

20, 21, 22. *History of Ornament.* Study of nature and development of ornament with reference to architectural design and to decoration. Three hours, six hours drawing. Through the year. This course is valuable to all designers. Elective for all students who have taken or are taking Drawing 2.

23, 24, 25. *Colonial Architecture in New England.* Studied directly from the buildings, with the aid of text-books and lectures. Three hours. Through the year. Elective for graduates and advanced undergraduates with consent of instructor. No drawing required in preparation for this course.

26, 27, 28. *History of Church Planning.* Lectures, and study of authorities. Three hours. Through the year. Elective for graduates.

## MUSIC

### Mr. Ashton

1. *Harmony.* The construction and connection of chords. Three hours. First Term. Elective for Sophomores, Juniors and Seniors.

2. *Harmonization.* The use of non-harmonic notes with practice in the harmonization of canti firmi. Three hours. Second Term. Elective for Sophomores, Juniors and Seniors.

3. *Simple Counterpoint.* The treatment of several melodious voice-parts in harmonic combination. Three hours. Third Term. Elective for Sophomores, Juniors and Seniors.

4. *Harmonic and Contrapuntal Analysis.* Three hours. First Term. Elective for Juniors and Seniors.

5. *Double Counterpoint and Canon.* Three hours. Second Term. Elective for Juniors and Seniors.

6. *Canon and Imitation.* Three hours. Third Term. Elective for Juniors and Seniors.

7. *Fugue.* Three hours. First Term. Elective for Seniors and graduates.

8. *Fugue and Free Composition.* Three hours. Second Term. Elective for Seniors and graduates.

9. *Free Composition and Instrumentation.* Three hours. Third Term. Elective for Seniors and graduates.

10. *History of Music.* Lectures, collateral reading and reports. Three hours. First Term. Elective for Juniors, Seniors and graduates.

11. *Historical Development of Musical Form.* Three hours. Second Term. Elective for Juniors, Seniors and graduates.

12. *Musical Analysis.* Three hours. Third Term. Elective for Juniors, Seniors and graduates.

13. *Sacred Music.* Three hours. Third Term. Elective for Juniors and Seniors.

14, 15, 16. *The Symphony.* Three hours. Through the year. Elective for graduates.

Courses 1 to 9 inclusive are sequential and must be taken in order. Music 4, 5, 6 will not be offered until 1896-97; Music 7, 8, 9 will be offered in 1897-98.

Courses 11, 12 are sequential and must be taken in order.

A knowledge of the rudiments of music is required of those entering any of the above courses. Some ability in pianoforte or organ playing is desirable.

## VI. BIBLICAL LITERATURE AND HISTORY

PROFESSOR KENT

### HEBREW

1, 2. *Hebrew Accidence.* Harper's Manual and Elements. Three hours. First and Second Terms. Elective for Juniors, Seniors and graduates.

3. *Hebrew Accidence Continued.* Reading, in the original, of passages selected from the Books of Samuel, with study of Hebrew Syntax and textual criticism. Driver's Notes. Three hours. Third Term. Elective for Juniors and Seniors.

4. *Minor Prophets of the Assyrian Period.* Critical translation and interpretation in the light of the history of the times. Three hours. Second Term. Elective for Juniors, Seniors and graduates.

5. *Hebrew History.* From the Settlement in Canaan to the Disruption. Based on the revised version, statements from the monuments, and information furnished by modern Palestine and its life. Recitations, informal lectures and supplementary reading. Three hours. First Term. Elective for Juniors, Seniors and graduates.

6. *Hebrew History Continued.* From the Disruption to the Exile. Especial attention to the character and work of the prophets. Three hours. Second Term. Elective for Juniors, Seniors and graduates.

7. *Wisdom Literature of the Old Testament.* Proverbs, Job, Song of Songs, and Ecclesiastes. Analysis of contents, date and authorship. Three hours. Third Term. Elective for Juniors, Seniors and graduates.

Courses 5 to 7, inclusive, require no knowledge of Hebrew, and any one may be taken independently of the other two.

## ARABIC

1, 2, 3. *Grammar and Reading.* Lansing's Manual. Selected Suras from the Koran. One hour. Through the year. Elective for Juniors, Seniors and graduates.

## ASSYRIAN

1, 2, 3. *The Elements.* Lyon's Manual. One hour. Through the year. Elective for Juniors, Seniors and graduates.

4, 5. *Historical Inscriptions of Sennacherib and Esarhaddon.* One hour. First and Second Terms. Elective for Juniors, Seniors and graduates.

## NEW TESTAMENT LANGUAGE AND LITERATURE

1. *The Gospel of Mark.* Critical translation. Study of linguistic peculiarities and text criticism. Three hours. First Term. Elective for Juniors, Seniors and graduates.

2. *The Gospel of Luke.* Rapid reading. Study of the contents in the light of the history. Three hours. Second Term. Elective for Juniors, Seniors and graduates.

3. *Paul's Corinthian Epistles.* Rapid reading. Analysis of thought. Study of the Pauline teaching. Three hours. Third Term. Elective for Juniors, Seniors and graduates.

4. *The Life of Jesus.* In English. Stevens and Burton's Harmony. Systematic study of the events in their geographical and historical relations. Three hours. Third Term. Elective for Juniors, Seniors and graduates.

## VII. RHETORIC AND ORATORY

PROFESSORS LAMONT AND SEARS, MESSRS. DODGE, FOGG, POOR, CROSBY, FROST, ENO, AND HANLEY

2, 3, 4. *Practical Rhetoric.* Three hours. Through the year. Required of Sophomores who have not taken the subject in the Freshman year. Elective for Freshmen on the B. P. or the B. S. course. Required of Freshmen on the C. E. or the M. E. course. For Freshmen who do not elect Elocution this course is increased to four hours.

16, 17, 18. *English Composition.* Advanced course. Short themes four or five times a week, long themes every fortnight. Criticism and discussion in class. Three hours. Through the year. Open to such Juniors and Seniors as have done especially good work in composition. The membership of the class is limited to twenty.

MR. DODGE

33, 34, 35. *Argumentative Composition.* Drill in argumentative composition. Lectures on argumentation. Briefs based on masterpieces of argumentative composition. Discussion of briefs and of arguments. One hour. Through the year. Required of all Juniors.

PROFESSOR LAMONT

27, 28, 29. *Oral Discussion.* Debates occupying two consecutive hours each week. Criticism of matter, arrangement and delivery. Elective for a limited number of students, preference being given to those who have attained high rank in English Composition, Political Economy, Social and Political Science and History, and to those who take or have taken instruction in Elocution. Three hours. Through the year.

PROFESSOR LAMONT, MR. FOGG and Professors representing the departments to which most of the debates relate.

30, 31, 32. *Oratory.* An analytic, synthetic, and historical study of the Oration as a type of literature and composition. Three hours. Through the year. Elective for Juniors and Seniors.

PROFESSOR SEARS

19, 20, 21. *Public Speaking.* A survey of the principles of the art, with weekly exercises in declamation. Class criticism of speakers. Individual training. One hour. Through the year. Elective for Sophomores and for Freshmen on the B. P. and B. S. courses.

Mr. Fogg

36, 37, 38. *Public Speaking, Advanced Course.* Informal lectures on methods of delivery and on the sources of power in public address. Frequent declamations. Individual training. One hour. Through the year. Elective for Juniors.

Mr. Fogg

## VIII. ENGLISH

### ENGLISH LITERATURE AND LANGUAGE

Professors Manly, Bronson and Sears, and Mr. Dodge

Courses announced in groups are continuous. Thus a student cannot take English 5 without having taken English 4, nor can he take English 6 without having taken English 4 and 5. The same principle applies to all courses similarly grouped. In all other instances prerequisites for admission to a course are specially announced.

10. *Anglo-Saxon.* Elementary Course. The essentials of the grammar, and the reading of easy prose. Three hours. First Term. Elective for Sophomores, Juniors and Seniors.

Professor Manly

11. *Anglo-Saxon.* Prose and poetry. Three hours. Second Term. Elective for students who have passed in 10.

Professor Manly

12. *Anglo-Saxon.* Béowulf. Three hours. Third Term. Elective for students who have passed in 11.

Professor Manly

13, 14, 15. *Oldest English Texts.* Three hours. Through the year. Elective for students who have passed in 12. Omitted in 1896-97.

Professor Manly

24, 25, 26. *Middle English.* Three hours. Through the year. Elective for students who have passed in 12. Omitted in 1895-96.

Professor Manly

27, 28. *Chaucer.* Elementary Course. Three hours. First and Second Terms. Elective for Sophomores, Juniors and Seniors.

Professor Manly

39. *The History of the English Language.* Elementary Course. Three hours. Third Term. Elective for students who have passed in 11 or 28.

Professor Manly

1, 2, 3. *English Literature.* Introductory Course. Three hours. Through the year. Elective for Sophomores and Juniors, and for Seniors who have taken no literary course in the English department.

PROFESSOR BRONSON AND MR. DODGE, ASSISTED BY PROFESSOR MANLY

Students who have not taken 1, 2, 3, or its equivalent, will not be admitted to the more advanced courses in English Literature.

4, 5, 6. *Shakspere.* Three hours. Through the year. Elective for Juniors and Seniors. May be taken two years in succession.

PROFESSOR MANLY

34, 35, 36. *Shakspere.* Three hours. Through the year. Elective for students who have passed in 1, 2, 3, or its equivalent, and who have also passed in or are taking 4, 5, 6. Omitted in 1895-96.

PROFESSOR BRONSON

40, 41, 42. *English Literature from Wyatt to Milton exclusive of the Drama.* Three hours. Through the year. Elective for students who have passed in 1, 2, 3, or its equivalent, and in 4, 5, 6.

MR. DODGE

31, 32, 33. *English Literature from Dryden to Cowper exclusive of the Novel.* Three hours. Through the year. Elective for students who have passed in 1, 2, 3, or its equivalent.

MR. DODGE

43, 44, 45. *English Poetry from Burns to Keats.* Three hours. Through the year. Elective for students who have passed in 1, 2, 3, or its equivalent. Omitted in 1895-96.

PROFESSOR BRONSON

46, 47, 48. *English Poetry of the Victorian Period.* Three hours. Through the year. Elective for students who have passed in 1, 2, 3. Omitted in 1896-97.

PROFESSOR BRONSON

50, 51, 52. *English Essayists of the Nineteenth Century.* Three hours. Through the year. Elective for students who have passed in 1, 2, 3, or its equivalent, and in Rhetoric 2, 3, 4.

PROFESSOR BRONSON

18, 19, 37. *The English Novel.* Three hours. Through the year. Elective for students who have passed in 1, 2, 3. Omitted in 1896-97.

PROFESSOR BRONSON

20, 21, 22. *Seminary in English Literature.* Omitted in 1895-96.

16, 17, 38. *American Literature.* Three hours. Through the year. Elective for students who have passed in 1, 2, 3, or its equivalent.

PROFESSOR SEARS

Courses 29 and 30, and 7, 8, 9, are withdrawn.

## IX. HISTORY

PROFESSORS JAMESON, MUNRO AND DEALEY, AND MR. BURNETT

1. *General Mediaeval History of Europe.* Recitations and lectures, reports by members of the class, and supplementary readings. Three hours. First Term. Required of all Juniors.

PROFESSOR MUNRO

2. *General Modern History of Europe.* Methods as indicated under Course 1. Three hours. Second Term. Required of all Juniors.

PROFESSOR MUNRO

3. *History of the Reformation.* Three hours. Third Term. Elective for Juniors, Seniors and graduates.

PROFESSOR MUNRO

4. *English Constitutional and Political History to 1625.* Methods as indicated under Course 1. Three hours. First Term. Elective for Juniors and Seniors.

MR. BURNETT

5. *English Constitutional and Political History since 1625.* Methods as in Course 1. Three hours. Second Term. Elective for Juniors and Seniors.

MR. BURNETT

6. *History of Europe since 1800.* Methods as in Course 1. Three hours. Third Term. Elective for Juniors and Seniors.

MR. BURNETT

7. *Constitutional and Political History of the United States to 1801.* Methods as in Course 1. Three hours. First Term. Elective for Seniors.

PROFESSOR JAMESON

8. *Constitutional and Political History of the United States since 1801.* Methods as in Course 1. Three hours. Second Term. Elective for Seniors.

PROFESSOR JAMESON

9. *Practical Exercises in American History.* Individual research, practice in the use of sources, instruction of students individually, occasional meetings in class. Three hours. Third Term. Elective for Seniors who have completed Courses 7 and 8, and for graduates.

PROFESSOR JAMESON

10. *Principles of Historical Criticism.* Lectures and exercises. One hour. Through the year. Elective for graduates.

PROFESSOR JAMESON

11. *History of the Renaissance.* Three hours. Third Term. Elective for Juniors, Seniors and graduates.

PROFESSOR MUNRO

12. *Practical Exercises in Historical Criticism.* The Constitutional History of England from 1066 to 1154. One hour. First Term. To be succeeded in the Second or Third Term by similar exercises in later periods. Elective for graduates.

PROFESSORS JAMESON AND DEALEY

13. *The History of Historical Writing in Modern Europe.* Lectures. One hour. First and Second Terms. Electives for graduates. Not offered in 1895-96.

PROFESSOR JAMESON

14. *American History, Special Course.* Selected topics in the constitutional history of the colonial period, in the history of Washington's first administration, and in the history of modern American diplomacy. Lectures. One hour. Through the year. Elective for graduates.

PROFESSORS JAMESON AND DEALEY

15. *Islam and the Crusades.* Three hours. Third Term. Elective for Juniors, Seniors and graduates. Not offered in 1895-96.

PROFESSOR MUNRO

16. *The French Revolution.* Three hours. Third Term. Elective for Juniors, Seniors and graduates. Not offered in 1895-96.

PROFESSOR MUNRO

The Historical Seminary, conducted by Professor Jameson, and including the graduate students of history and a few of the most advanced undergraduates, meets at intervals of about two weeks. Its meetings are devoted to original papers, to reports upon studies of method, and to the historical reviews and journals. The Seminary of Mediaeval History, conducted by Professor Munro, devotes itself to similar work in connection with his courses.

## X. SOCIAL AND POLITICAL SCIENCE

PROFESSORS WILSON AND DEALEY, MESSRS. GREEN AND WILCOX

### SOCIAL SCIENCE

1. *The Principles of Sociology.* Lectures. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

2. *Social Problems and Conditions.* Some conclusions of Anthropology and Ethnology considered. The Family, Marriage, Divorce, Immigration, Charity, Pauperism, Criminology, Penology, Intemperance, Education, Social Legislation. Lectures. Three hours. Second Term. Elective for those who have completed Course 1.

PROFESSOR WILSON

3. *Social Problems and Conditions.* Continuation of Course 2. Third Term. Elective for those who have completed Courses 1 and 2.

PROFESSOR WILSON

4. *Social Philosophy.* Special reference to the aim of society. Lectures and exercises. Three hours. Second Term. Elective for those who have passed in 1, 2, 3, and for graduates.

PROFESSOR DEALEY

5. *Development of Social Theory.* Social theories ancient and modern. Lectures and exercises. Three hours. First Term. Elective for those who have taken 1, 2, 3, and for graduates.

PROFESSOR DEALEY

6. *Segregation of Population.* Causes and Problems. Special study of modern municipal functions and administration. Three hours. Third Term. Elective for students who have taken 1, 2, 3, and for graduates.

PROFESSOR DEALEY

7, 8, 9. *Current Social Theory and Practice.* Special investigations. One hour. Through the year. Elective for graduate students.

PROFESSORS WILSON AND DEALEY

10. *History of Germanic Institutions.* Political and Social. From the earliest records to A. D. 1250. Auxiliary course. Lectures. One hour. Through the year. Elective for graduates. A reading knowledge of German required.

PROFESSOR SCOTT

## POLITICAL SCIENCE

1. *The State.* Origin, development, conditions, forms, end, and functions. Recitations, lectures, exercises. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

2. *Comparative Study of Constitutions.* Especially those of the United States, Germany, France, Switzerland, England. Lectures and exercises. Three hours. Third Term. Elective for those who have completed Course 1.

PROFESSOR DEALEY

3. *International Law and Relations.* Three hours. Second Term. Elective for those who have completed Course 1.

PROFESSOR WILSON

4. *United States Constitutions.* National and local constitutions and institutions. Three hours. Second Term. Elective for those who have taken Course 1.

PROFESSOR DEALEY

5. *Development of Political Theory.* The growth of important political ideas traced from Plato to the present time. Three hours. First Term. Elective for those who have taken Course 1.

PROFESSOR DEALEY

6. *Roman Law.* Historical and legal exposition. Influence on political institutions. Three hours. Second Term. Elective for Juniors and Seniors.

MR. GREEN

7. *Diplomacy.* The art and practice of international negotiation. Three hours. Third Term. Elective for those who have taken Course 3, and for graduates.

PROFESSOR WILSON

8, 9, 10. *Current Political Theory and Practice.* Investigations of topics in United States and foreign politics. One hour. Through the year. Elective for graduate students.

PROFESSOR WILSON

## ELEMENTARY LAW

MR. WILCOX

1. *Elements of Law.* Personal Relations. Three hours. First Term. Elective for Juniors and Seniors.

2. *Property, Personal and Real.* Three hours. Second Term. Elective for Juniors and Seniors.

3. *Contracts.* Three hours. Third Term. Elective for Juniors and Seniors.

4. *Practice, Pleading, and Evidence.* Three hours. First Term. Elective for Juniors and Seniors.

5. *Torts.* Three hours. Second Term. Elective for those who have completed Course 4.

6. *Criminal Law and Procedure.* Three hours. Third Term. Elective for those who have completed Courses 4 and 5.

Instruction in all the above courses will be by text-books, lectures, and the study of cases. 1, 2, 3 and 4, 5, 6 are given in alternate years. 4, 5, 6 is given during 1895-96.

*Sociological Seminary.* Original work, criticisms and reviews.

## XI. POLITICAL ECONOMY

PROFESSOR GARDNER

1, 2, 3. *Elementary Course.* Based upon lectures, and upon readings in standard authors. Essays. Three hours. First, Second and Third Terms. Elective for Juniors and Seniors.

4. *History of Economic Thought.* Lectures. Readings in the authors discussed. Three hours. First Term. Elective for Seniors.

6. *Money and Banking.* A discussion of the theory of money and credit, a description of existing monetary and credit systems, and a discussion of current problems in these fields. Jevons's Money and the Mechanism of Exchange, Dunbar's Theory and History of Banking and Taussig's The Silver Question in the United States. Three hours. Second Term. Elective for Seniors and graduates.

5. *Public Finance.* Lectures. Bastable's Public Finance. Description and comparison of the financial systems of the United States and foreign nations, including local finance and discussion of the principles of taxation. Three hours. Third Term. Elective for Seniors and graduates.

Advanced courses are open to Seniors and graduate students who have completed the elementary course.

## XII. GERMANIC LANGUAGES AND LITERATURES

Professors Williams, Scott and Crowell, and Messrs. Ely and Poor

### Undergraduate Courses

### GERMAN

1. *Elementary Course.* Wenckebach's *Deutsches Lesebuch* and Collar's Shorter *Eysenbach.* Three hours. First Term. Required of all Sophomores.

Professor Crowell, Messrs. Ely and Poor

2. *Intermediate Course.* Grammar. Composition. Conversation. Translation of selections in prose and verse from Goethe, Uhland, Schiller, Freytag, Benedix, Heyse. Three hours. Second Term. Required of all Sophomores.

Professor Crowell, Messrs. Ely and Poor

3. *Heine.* Life and Works. Lyrics. *Harzreise.* Reading at sight. Grammar. Composition. Conversation. Three hours. Third Term. Required of all Sophomores.

Professor Crowell, Messrs. Ely and Poor

4. *Schiller as Dramatist. Maria Stuart, and Jungfrau von Orleans.* Lectures. Essays. Three hours. First Term. Elective for those who have passed in Courses 1, 2 and 3.

Professors Williams and Crowell

5. *Balladen und Romanzen.* Goethe, Schiller, Uhland and Bürger. Lectures. Essays. Three hours. Second Term. Elective for those who have passed in Course 4.

PROFESSORS WILLIAMS AND CROWELL

6. *Lessing as Dramatist. Emilia Galotti, Minna von Barnhelm, Nathan der Weise.* Lectures. Essays. Three hours. Third Term. Elective for those who have passed in Course 5.

PROFESSORS WILLIAMS AND CROWELL

7. *Goethe's Sturm-und Drangperiode. Götz von Berlichingen, Die Lieden des jungen Werthers.* Lectures. Essays. Three hours. First Term. Elective for those who have passed in Course 6.

PROFESSOR WILLIAMS

8. *Goethe's Classical Dramas. Iphigenie auf Tauris, Torquato Tasso.* Lectures. Essays. Three hours. Second Term. Elective for those who have passed in Course 6.

PROFESSOR WILLIAMS

9. *Goethe's Faust.* Lectures. Essays. Three hours. Third Term. Elective for those who have passed in Course 6.

PROFESSOR WILLIAMS

16. *German Literature.* Introduction. Brief survey of early Periods. Klopstock. Herder. Lessing. Wieland. *Die Aufklärung. Der Göttinger Dichterbund. Die Sturm-und Drangperiode.* Lectures. Readings. Essays. Three hours. First Term. Elective for those who have studied German not less than two years.

PROFESSOR WILLIAMS

17. *German Literature.* Goethe and Schiller. Lectures. Readings. Essays. Three hours. Second Term. Elective for those who have passed in Course 17.

PROFESSOR WILLIAMS

18. *German Literature.* Romantic School. Later Nineteenth Century Literature. Lectures. Readings. Essays. Three hours. Third Term. Elective for those who have passed in Course 17.

PROFESSOR WILLIAMS

40, 41, 42. *Composition.* One hour. Through the year. Elective for those who have had not less than one year in German.

PROFESSORS WILLIAMS, SCOTT AND CROWELL

43, 44, 45. *Scientific German.* A general and three special Courses. Four hours. Through the year. Elective for those who have had not less than one year in German.

PROFESSOR SCOTT

## SCANDINAVIAN

### Professor Scott

#### Swedish

1, 2, 3. *Swedish Grammar.* Lectures on Swedish literature. One hour. Through the year. Elective for those who have had not less than one year in German.

#### Dano-Norwegian

1, 2, 3. *Norwegian and Danish Grammar.* Lectures on Norwegian and Danish literature. One hour. Through the year. Elective for those who have had not less than one year in German.

## DUTCH

### Professor Crowell

1, 2, 3. *Elementary Course.* Grammar. Reading of Nineteenth Century authors. Etymology and comparative study of the language. One hour. Through the year. Elective for those who have had not less than one year in German.

4, 5, 6. *Advanced Course.* Study of Classic and Romantic Schools. Essays by the class. Lectures on Dutch literature. One hour. Through the year. Elective for those who have passed in Course 3. Not given in 1895-96.

## Graduate Courses

## GERMAN

10, 11, 12. *Introduction to Middle High German.* Middle High German Grammar. *Das Nibelungenlied.* Lectures. One hour. Through the year. Elective for those who have had at least one year in German.

Professor Williams

13, 14, 15. *Advanced Middle High German. Des Minnesangs Frühling, Walther von der Vogelweide.* Lectures. Essays. One hour. Through the year. Elective for those who have passed in Course 12.

Professor Williams

37, 38, 39. *Advanced Middle High German.* The Court Epics. Hartmann von Aue's *Iwein* and *Der arme Heinrich.* Gottfried von Strassburg's *Tristan.* Wolfram von Eschenbach's *Parzival.* Lectures. Essays. One hour. Through the year. Elective for those who have passed in Course 12.

Professor Williams

19, 20, 21. *Old High German.* One hour. Through the year.

PROFESSOR SCOTT

34, 35, 36. *Germanic Philology.* Lectures upon sounds, word-formation, syntax and metre of the Germanic dialects. Two hours. Through the year. Not given in 1895-96.

PROFESSOR SCOTT

28, 29, 30. *Germanic Mythology.* Lectures upon Germanic Mythology and its relations to the Germanic Literatures. One hour. Through the year. Not given in 1895-96.

PROFESSOR SCOTT

31, 32, 33. *Germanic Institutions.* Lectures on the political and social institutions of Germanic peoples from the earliest times to A. D. 1250. One hour. Through the year.

PROFESSOR SCOTT

### OLD SAXON

1, 2, 3. *Altsächische Grammatik. Behagel's Hêliand.* One hour. Through the year. Not given in 1895-96.

PROFESSOR SCOTT

### GOTHIC

1, 2, 3. *Gotische Grammatik. Heyne's Stamm's Ulfilas.* One hour. Through the year.

PROFESSORS WILLIAMS AND SCOTT

### OLD NORSE

PROFESSOR SCOTT

1, 2, 3. *Introductory.* Lectures. One hour. Through the year. Not given in 1895-96.

4, 5, 6. *Advanced. Egil's Saga. Gunnlaug's Saga. Ari's Islendingabok.* Lectures upon the Old Norse Literature. One hour. Through the year.

## XIII. ROMANCE LANGUAGES AND LITERATURES

PROFESSOR LANGDON, MESSRS. JOHNSON, PUTNAM AND ROUX

### FRENCH

A, B, C. *Elementary Course.* Grammar, composition and reading of easy selections in modern French. The equivalent of the Elementary French required for admission. Required of all Sophomores who offer German for admission instead of French. Three hours. Through the year.

MESSRS. JOHNSON AND ROUX

1, 2, 3. *Modern French.* Selections from French lyrical poetry. Rapid translation with special study of unusual constructions and idioms. Readings in the original by the instructor and the class. Three hours. Through the year. Required of all Freshmen.

Messrs. Johnson and Putnam

4, 5, 6. *French Classics.* Literary study in the original, of the masterpieces of Corneille, Racine, Molière, La Fontaine, Victor Hugo and Alfred de Musset. Three hours. Through the year. Elective for all who have passed with credit in French 1, 2, 3.

Professor Langdon

13, 14, 15. *Practice in Writing and Speaking French.* Two hours. Through the year. Elective for all who have passed with credit in French 1, 2, 3.

Mr. Johnson

33, 34, 35. *History of the Romance Literatures.* Lectures. Reports by the class on readings of masterpieces supplementary to those taken up in Course 4, 5, 6. Three hours. Through the year. Open only to those who have passed with credit in French 4, 5, 6.

Professor Langdon

## Graduate Courses

*Open to Seniors with the Consent of the Instructor*

10, 11, 12. *French Literature of the Nineteenth Century.* A study of the Romantic, Realistic and Naturalistic schools. Weekly reports of assigned readings. Biographical lectures. Three hours. Through the year. Elective for Seniors who have passed with credit in French 4, 5, 6.

Mr. Johnson

16, 17, 18. *French Literature of the Sixteenth Century.* One hour. Through the year. Elective like Course 10, 11, 12.

Professor Langdon

21, 31, 32. *Old French.* The elements of French Philology. Reading of texts. One hour. Through the year. Elective as Course 10, 11, 12.

Mr. Johnson

25, 26, 27. *Provençal.* Selections from Bartsch's *Chrestomathie Provençale.* One hour. Through the year. Elective as 10, 11, 12.

Professor Langdon

## ITALIAN

1, 2, 3. *Modern Italian.* The Elements of grammar. Rapid translation. Three hours. Through the year. Elective for Juniors and Seniors.

PROFESSOR LANGDON

7, 8, 9. *Dante in English.* The whole of the *Divina Commedia* studied in English. Two hours. Through the year. Elective for Juniors and Seniors at the instructor's discretion.

PROFESSOR LANGDON

10, 11, 12. *Dante.* Special study of selected cantós in the original. One hour. Through the year. Elective for those who have passed with credit in Italian 1, 2, 3.

PROFESSOR LANGDON

13, 14, 15. *Classical Course.* Selections from Petrarch, Boccaccio, Ariosto and Tasso. One hour. Through the year. Elective for graduate students.

PROFESSOR LANGDON

16, 17, 18. *Old Italian.* Nannucci's *Manuale della Letteratura del Primo Secolo della Lingua Italiana.* One hour. Through the year. Elective for graduate students.

PROFESSOR LANGDON

## SPANISH

1, 2, 3. *Modern Spanish.* The elements of grammar. Rapid translation. One hour a week devoted to conversation and reading in the original. Three hours. Through the year. Elective for Juniors and Seniors.

MR. JOHNSON

4, 5, 6. *Classical Course.* Selections from Calderon and Lope de Vega, and special study of Cervantes' *Don Quixote.* One hour. Through the year. Elective for graduate students.

PROFESSOR LANGDON

7, 8, 9. *Old Spanish.* Keller's *Altspanisches Lesebuch.* History of Spanish Literature. One hour. Through the year. Elective for graduate students.

PROFESSOR LANGDON

Advanced graduate courses are arranged according to the needs of candidates and the time of the officers of the department.

## XIV. PURE MATHEMATICS

PROFESSORS CLARKE, DAVIS, AND MANNING, MESSRS. MOSS, SLOCUM, CADY AND CLAPP

1. *Geometry, Solid and Spherical.* Wells's Elements of Geometry, with original propositions. Five hours. First Term. Required of all candidates for the degrees of Bachelor of Arts, Bachelor of Philosophy, Civil Engineer, and Mechanical Engineer.

PROFESSORS CLARKE, DAVIS, AND MANNING, MESSRS. MOSS, SLOCUM, CADY AND CLAPP.

2. *Trigonometry, Plane and Spherical.* Wells's Trigonometries. Five hours. Third Term. Required of all candidates for the degrees of Bachelor of Arts, Bachelor of Philosophy, Civil Engineer and Mechanical Engineer.

PROFESSORS CLARKE, DAVIS, AND MANNING, MESSRS. MOSS, SLOCUM, CADY AND CLAPP

3. *Algebra.* Wells's Algebra. Five hours. Second Term. Required of all candidates for the degrees of Bachelor of Arts, Bachelor of Philosophy, Civil Engineer, and Mechanical Engineer.

PROFESSORS CLARKE, DAVIS AND MANNING, MESSRS. MOSS, SLOCUM, CADY, AND CLAPP

4. *Spherical Trigonometry.* One hour. First Term. Required of candidates for the degree of Bachelor of Science.

PROFESSOR MANNING

5. *Algebra.* Wells's Algebra. One hour. First Term. Required of candidates for the degree of Bachelor of Science.

PROFESSOR MANNING

6. *Algebra.* Wells's Algebra. A continuation of Course 5. Two hours. Second Term. Required of candidates for the degree of Bachelor of Science.

PROFESSOR MANNING

7. *Algebra.* Wells's Algebra. A continuation of Course 6. Two hours. Third Term. Required of candidates for the degree of Bachelor of Science.

PROFESSOR MANNING

8. *Theory of Equations and Determinants.* Three hours. Third Term. Elective for those who have passed in Course 3, or Courses 5, 6 and 7.

PROFESSOR MANNING

9. *Analytic Geometry.* Wentworth's Analytic Geometry. Three hours. First Term. Elective for those who have passed in Courses 1, 2 and 3. Required of candidates for the degrees of Bachelor of Science, Civil Engineer and Mechanical Engineer.

PROFESSOR DAVIS

10. *Analytic Geometry.* Wentworth's Analytic Geometry. Three hours. Second Term. Elective for those who have passed in Course 9. Required of candidates for the degrees of Bachelor of Science, Civil Engineer and Mechanical Engineer.

PROFESSOR DAVIS

11. *Modern Methods in Analytic Geometry.* Lectures. Three hours. Third Term. Elective for those who have passed in Course 10. Offered in 1895-96.

PROFESSOR MANNING

30. *Solid Analytic Geometry.* Three hours. Third Term. Elective for those who have passed in Course 10. Offered in 1896-7.

Course 11 alternates with Course 30, each being offered every other year.

12. *Differential Calculus.* Rice and Johnson's Differential Calculus. Three hours. Third Term. Elective for those who have passed in Courses 9 and 10. Required of candidates for the degrees of Bachelor of Science, Civil Engineer and Mechanical Engineer.

PROFESSOR DAVIS

13. *Integral Calculus.* Johnson's Integral Calculus. Three hours. First Term. Elective for those who have passed in Course 12. Required of candidates for the degrees of Civil Engineer and Mechanical Engineer.

PROFESSOR DAVIS

14. *Applications of the Calculus.* Rice and Johnson's Differential Calculus and Johnson's Integral Calculus. Three hours. Second Term. Elective for those who have passed in Courses 12 and 13. Required of candidates for the degrees of Civil Engineer and Mechanical Engineer.

PROFESSOR DAVIS

15. *Differential Equations.* Johnson's Differential Equations. Three hours. First Term. Elective for those who have passed in Courses 12 and 13.

PROFESSOR MANNING

16. *Differential Equations.* Johnson's Differential Equations. Continuation of Course 15. Three hours. Second Term. Elective for those who have passed in Course 15.

PROFESSOR MANNING

17. *Applications of the Theory of Functions.* One hour. Through the year. Elective for graduates.

PROFESSOR MANNING

18, 19, 20. *Modern Algebra.* Higher Plane Curves. Surfaces, Salmon, Clebsch, and Darboux. Three hours. Through the year. Elective for graduates, and for candidates for the degree of Bachelor of Science who have passed in Courses 15 and 16.

PROFESSOR MANNING

21, 22, 23. *Theory of Functions.* Functions of a real variable and of variables, including, in particular, a study of Fourier's series, and of potential functions. Three hours. Through the year. Elective for graduates and for candidates for the degree of Bachelor of Science who have passed in Courses 15 and 16. Offered in 1896-97.

PROFESSOR MANNING

Courses 18, 19, 20, alternate with Courses 21, 22, 23, each being offered every other year.

24, 25, 26. *Differential Equations.* Advanced Course. Authors: Craig, Jordan, Picard and Goursal. Three hours. Through the year. Elective for graduates. Offered in 1895-96.

PROFESSOR MANNING

27, 28, 29. *Substitutions and Transformation Groups.* Three hours. Through the year. Elective for graduates. Offered in 1896-97.

PROFESSOR MANNING

Courses 24, 25, 26, alternate with Courses 27, 28, 29, each being offered every other year.

## XV. DRAWING

PROFESSOR RANDALL, MESSRS. BURNHAM, ISHAM AND MARVEL

1. *Elementary Mechanical Drawing.* Faunce's Mechanical Drawing. Nature, care, and use of drawing instruments. Elements of orthographic and isometric projection. Four hours, eight hours drawing. First Term. Required of candidates for the degrees of Bachelor of Science, Civil Engineer and Mechanical Engineer. Elective for Freshmen who are candidates for the degree of Bachelor of Philosophy.

PROFESSOR RANDALL

16. *Elementary Mechanical Drawing.* Similar to Course 1. Three hours, six hours drawing. First Term. Elective for Sophomores, Juniors and Seniors.

PROFESSOR RANDALL

5, 6. *Descriptive Geometry.* Church's Descriptive Geometry. Reference Books, Warner, Millar, Waldo, Faunce, and Watson. Theory of orthographic and scenographic projection. Discussion and proof of theoretical and practical problems. Recitations and drawing. Four hours, three hours recitation and two hours drawing. Second and Third Terms respectively. Required of candidates for the degrees of Bachelor of Science, Civil Engineer and Mechanical Engineer. Elective for Freshmen who are candidates for the degree of Bachelor of Philosophy and have passed in Course 1.

PROFESSOR RANDALL

17, 18. *Descriptive Geometry.* Similar to Courses 5 and 6. Three hours, two hours recitation and two hours drawing. Second and Third Terms respectively. Elective for Sophomores, Juniors and Seniors who have passed in Course 1 or 16.

PROFESSOR RANDALL

7. *Shades and Shadows and Perspective.* Based upon Descriptive Geometry. Recitations and Drawing. Three hours, one hour recitation and four hours drawing. First Term. Required of candidates for the degrees of Civil Engineer and Mechanical Engineer. Elective for those who have passed in Courses 5 and 6, or 17 and 18.

PROFESSOR RANDALL

8. *Elementary Machine Drawing.* Sketches, detail and assembly drawings of simple machines. Three hours, six hours drawing. Second Term. Required of candidates for the degree of Mechanical Engineer. Elective for those who have passed in Courses 5 and 6, or 17 and 18.

PROFESSOR RANDALL

9. *Gearing.* Nature of higher plane curves and their application in the formation of gear teeth. Recitations and drawing. Three hours, one hour recitation and four hours drawing. Third Term. Required of candidates for the degree of Mechanical Engineer. Elective for those who have passed in Mechanical Engineering 1, and in Drawing 5 and 6, or 17 and 18.

MR. BURNHAM

10, 11. *Advanced Machine Drawing.* Sketches, detail and assembly drawings of complicated machines. Three hours, six hours drawing. First and Second Terms respectively. Required of candidates for the degree of Mechanical Engineer. Elective for those who have passed in Courses 8 and 9.

MR. BURNHAM

12. *Elements of Machine Design.* Problems in the design of mechanisms. Three hours, six hours drawing. Third Term. Required of

candidates for the degree of Mechanical Engineer. Elective for those who have passed in Mechanical Engineering 1, and in Drawing 10 and 11.

Mr. Burnham

27, 28. *Advanced Machine Design.* Problems in practical design involving the calculation of the strength of parts. Three hours, six hours drawing. First and Second Terms respectively. Required of candidates for the degree of Mechanical Engineer. Elective for those who have passed in Drawing 10, 11 and 12, and in Mechanics 3, 4 and 6.

Mr. Burnham

15. *Constructive Geometry.* Discussion and Proof of original methods of solving complicated geometrical problems. Three hours, six hours drawing. First Term. Elective for those who have passed in Course 1 or 16.

Professor Randall

19. *Mechanical Drawing.* Continuation of Course 16. Plane and solid problems. Advanced orthographic and isometric projection. Three hours, six hours drawing. Second Term. Elective for those who have passed in Course 16.

Professor Randall

20. *Mechanical Drawing.* Continuation of Course 19. Practical work in shades and shadows, and perspective. Three hours, six hours drawing. Third Term. Elective for those who have passed in Course 19.

Professor Randall

29, 30, 31. *Lettering.* Simple forms of letters applicable to engineering drawings. One hour, two hours drawing. Through the year. Open only to students in Civil Engineering.

Professor Hill

2, 3, 4. *Freehand Drawing.* Outline and light and shade in pencil and charcoal from models and casts. One hour, two hours drawing. Through the year. Elective for all students.

Mr. Isham

21, 22, 23. *Freehand Drawing.* Continuation of Course 4. Charcoal, pen-and-ink, water monochrome. One hour, two hours drawing. Through the year. Elective for those who have passed in Course 4.

Mr. Isham

24, 25, 26. *Freehand Drawing.* Architectural rendering in pen-and-ink and in washes. One hour, two hours drawing. Through the year. Elective for those who have passed in Course 4. Offered in 1895-96.

Mr. Isham

## XVI. CIVIL ENGINEERING

PROFESSOR HILL

All the courses here specified are required of candidates for the degree of Civil Engineer.

1, 2, 3. *Surveying.* Elementary course in land surveying. Use of tape, compass, level, and transit. Adjustment of instruments. Lectures, recitations, field-work and drawing. Three hours. Through the year. Elective for those who have passed in Mathematics 1, 2 and 3, and Drawing 1 or 16.

4. *Topographical Drawing.* Pen Topography. Conventional signs for maps. Colored Topography. Lectures and drawing. Three hours. Second Term. Elective for those who have passed in Course 1, and Drawing 1.

5, 6, 7. *Railroad Engineering.* Theory, location, construction, and economics. Lectures, recitations, field-work, and drawing. Six, three and three hours. First, Second and Third Terms. Elective for those who have passed in Courses 3, 4 and 8.

8. *Advanced Surveying.* Topography and Hydrography. City surveying. Use of stadia, plane table, sextant, and barometer. Precise base-line measurements with steel tape. Lectures, recitations, field-work, and drawing. Six hours. Third Term. Elective for those who have passed in Courses 1 and 2.

10, 11. *Hydraulic Engineering.* Water-supply, irrigation, pumps and pumping machinery. Lectures and recitations. Three hours. Second and Third Terms. Elective for those who have passed in Mathematics 13 and Mechanics 4.

12, 13, 14. *Framed Structures.* Calculation of stresses in roofs and bridges by graphical and analytical methods. Structural details. Bridge and roof design. Lectures, recitations, and drawing. Three, six and six hours. Third, First and Second Terms. Elective for those who have passed in Mathematics 13, Mechanics 4, and Drawing 1 or 16.

15. *Masonry.* Calculation of stresses in, and design of, arches, retaining walls and dams. Materials of construction. Lectures, recitations, and drawing. Three hours. Second Term. Elective for those who have passed in Mathematics 13, Mechanics 4, and Drawing 6.

16. *Geodesy.* Problems in geodetic surveying. Lectures and computations. Three hours. Second Term. Elective for those who have passed in Courses 3 and 8, and Astronomy 4.

17. *Sanitary Engineering.* Sewerage and house drainage. Lectures and recitations. Three hours. Third Term. Elective as in Course 15.

18. *Roads and Pavements.* Lectures and recitations. Three hours. Third Term. Elective as in Course 15.

19, 20, 21. *Laboratory Investigations.* Use and adjustment of instruments. Testing materials. Stereotomy. Three hours. Through the year. Elective as in Course 15.

## XVII. MECHANICAL ENGINEERING

PROFESSOR CLARKE AND MR. BURNHAM

All the following Courses are required of candidates for the degree of Mechanical Engineer.

1. *Kinematics.* Stahl and Woods' Elements of Mechanism. Recitations, graphical and analytical solution of problems. Three hours. First Term. Elective for those who have passed in Drawing 5 and 6, or 17 and 18.

MR. BURNHAM

9. *Thermo-dynamics of the Steam Engine.* Text-book by Prof. C. H. Peabody. Lectures, recitations and solution of problems. Three hours. Third Term. Elective for those who have passed in Physics 1, 2 and 4, and in Mathematics 12, 13 and 14.

MR. BURNHAM

3, 4, 5. *Steam Engineering.* Principles of steam engines and boilers and methods of testing. Lectures and laboratory work. Three hours. First, Second and Third Terms. Elective for those who have passed in Course 9.

MR. BURNHAM

6, 7, 8. *Materials of Engineering.* Sources, manufacture, and properties of materials. Lectures, with laboratory work. Three hours. First, Second and Third Terms. Elective for those who have passed in Mechanics 3, 4 and 6.

MR. BURNHAM

10, 11, 12, 13, 14, 15, 16. *Shopwork.* These Courses are taken by candidates for the degree of Mechanical Engineer, during successive terms from the Second Term of the Sophomore year to the Second Term of the Senior Year. Courses 10 and 11 are elective during any two terms for all other Sophomores, Juniors and Seniors.

PROFESSOR CLARKE

For Courses in Elementary Machine Drawing, Gearing, Advanced Machine Drawing, Elementary Machine Design and Advanced Machine Design, see Drawing 8, 9, 10, 11, 12, 27 and 28 on pages 86-87.

### MECHANICS

3, 4, 6. *Mechanics of Engineering: Mechanics of Solids.* Three hours. Through the year. Elective for students who have passed in Pure Mathematics 9, 10 and 12, and who are taking Mathematics 13.

PROFESSOR CLARKE

7, 8. *Mechanics of Engineering: Mechanics of Fluids.* Three hours. First and Second Terms. Elective for students who have passed in Courses 3, 4 and 6.

PROFESSOR CLARKE

## XVIII. CHEMISTRY

PROFESSOR APPLETON, MESSRS. CALDER, SAUNDERS, SMITH AND KNIGHTS

1. *Descriptive Chemistry.* Non-metals. Three hours. First Term. Elective for Sophomores.

PROFESSOR APPLETON, MESSRS. CALDER, SMITH AND KNIGHTS

2. *Descriptive Chemistry.* Metals. Continuation of Course 1. Three hours. Second Term. Elective for Sophomores.

PROFESSOR APPLETON, MESSRS. CALDER, SMITH, AND KNIGHTS

3. *Descriptive Chemistry.* Carbon compounds. Continuation of Course 2. Three hours. Elective for Sophomores.

PROFESSOR APPLETON, MESSRS. CALDER, SMITH AND KNIGHTS

4. *Qualitative Analysis.* Three hours, six hours' attendance. First Term. Elective for Juniors.

PROFESSOR APPLETON AND MR. SAUNDERS

5. *Qualitative Analysis continued and Quantitative Analysis begun.* Three hours, six hours' attendance. Second Term. Elective for Juniors.

PROFESSOR APPLETON AND MR. SAUNDERS

6. *Quantitative Analysis continued.* Three hours, six hours' attendance. Third Term. Elective for Juniors.

PROFESSOR APPLETON AND MR. SAUNDERS

Students who have passed in Courses 1-6 may elect any of the following:

7, 8, 9. *Advanced Quantitative Analysis.* Six hours, twelve hours attendance. Through the year.

PROFESSOR APPLETON AND MR. SAUNDERS

10, 11, 12. *Organic Chemistry.* Six hours, twelve hours attendance. Through the year.

PROFESSOR APPLETON AND MR. SAUNDERS

13, 14. *Assaying.* Six hours, twelve hours' attendance. Second and Third Terms.

PROFESSOR APPLETON AND MR. SMITH

15, 16. *Medical Chemistry.* Six hours, twelve hours' attendance. Second and Third Terms.

PROFESSOR APPLETON AND MR. SAUNDERS

17, 18. *Agricultural Chemistry.* Six hours, twelve hours' attendance. Second and Third Terms.

PROFESSOR APPLETON AND MR. SAUNDERS

20. *The Scouring and Dyeing of Wool.* Six hours, twelve hours' attendance. Third Term.

PROFESSOR APPLETON AND MR. SAUNDERS

## XIX. PHYSICS

PROFESSOR BARUS, DR. PALMER, AND MR. WATSON

1, 2, 4. *Elementary Physics.* First term, Kinematics and Dynamics; Second Term, Molecular Physics and Heat; Third Term, Light and Electricity. Daniell's Text-book. Lectures. Weekly examinations. Three hours. Through the year. Elective for Sophomores and Juniors.

PROFESSOR BARUS

5, 9, 10. *Physical Laboratory, General Course.* First Term, Mechanics and Acoustics; Second Term, Optics and Radiant Heat; Third Term, Heat and Electricity. Three hours, six hours' attendance. Elective after or in connection with Physics 1, 2, 4.

DR. PALMER AND MR. WATSON

3. *Elementary Course in Electricity and its Applications.* Lectures, introducing the mathematical treatment of the subject, with numerous examples and frequent written exercises. Three hours. First Term. Elective for students who have passed in Physics 1, 2, 4 and Mathematics 12.

DR. PALMER

11. *Special Course in Electricity.* Design of dynamos and motors, general methods of testing. Three hours. Second Term. Elective for those who have passed in Physic 3 and Mathematics 13.

MR. WATSON

13. *Elementary Dynamics.* Three hours. First Term. Elective for Seniors and graduates who have passed in Physics 1, 2, 4; 5, 9, 10, and Mathematics 15.

Dr. Palmer

14. *Thermodynamics.* Three hours. Second Term. Elective for Seniors and graduates who have passed in Physics 13 and Mathematics 15.

Dr. Palmer

16. *Hydrodynamics.* Three hours. Third Term. Elective for Seniors and graduates who have passed in Physics 14 and Mathematics 16.

Dr. Palmer

15. *Electrical Engineering Laboratory Course.* Practical tests of dynamos and motors. Three hours, six hours' attendance. Third Term. Elective for those who have passed in Physics 5, 9, 10, 11.

Professor Barus, Dr. Palmer and Mr. Watson

17, 18, 19. *Advanced Laboratory Course.* Experimental investigation of special problems. Three hours, six hours' attendance. First, Second and Third Terms. Elective after or in connection with Physics 12, 13, 14, and 16.

Professor Barus and Dr. Palmer

20, 21. *Harmonic Analysis.* Its immediate relations to the analytical theory of heat and to electric oscillations. Second and Third Terms. Elective for Seniors and graduates who have passed in Physics 1, 2, 4, and Mathematics 14, 15.

Professor Barus

22. *The Behavior of Matter Through Long Ranges of Temperature.* Original research. Investigation of accurate methods and data in absolute pyrometry. Determination of the high temperature constants of non-volatile bodies, with a view to the elucidation of fundamental questions in the physics of the earth's crust. Elective for graduates.

Professor Barus

23. *The Behavior of Matter Through Long Ranges of High Pressure.* Original research. The thermo-dynamics of the change of state from solid to liquid, due either to fusion or to solution, investigated with especial reference to the continuity of solid and liquid, and to the location of the lower critical temperature. Elective for graduates.

Professor Barus

24. *The Absolute Viscosity of Solids as Compared with Liquids and Gases.* Original research. Investigation of absolute data for the viscosity of solids. Elective for graduates.

Professor Barus

25. *Physical Properties of the Iron Carburets.* Original research. Physical properties of iron, steel and cast iron considered with reference to their bearing on metallurgical and electro-technical problems. Elective for graduates.

Professor Barus

Courses 22-25, inclusive, occupy more or less time per week according to the requirements of students. These Courses are definitely organized, and the apparatus for conducting them is at hand. Other courses of original research are offered to suit the special needs or training of advanced students in this department.

## XX. ASTRONOMY

Professor Upton

1. *General Astronomy.* Young's General Astronomy, with lectures. Three hours. First Term. Elective for Juniors and Seniors.

2, 6. *General Astronomy continued.* Three hours. Second and Third Terms. Elective for those who have passed in Course 1.

3. *Practical Astronomy.* The application of Astronomy in Navigation and Geodesy. Theory and use of instruments. Three hours. Second Term. Elective for those who have passed in Course 1.

4. *Practical Astronomy continued.* Three hours. Third Term. Elective for those who have passed in Course 3.

8, 9, 10. *Advanced Practical Astronomy.* Further study of the application of Astronomy to Geodesy. Method of Least Squares. Doolittle's Practical Astronomy, with use of instruments. Three hours. Through the year. Elective only for those who have shown special aptitude in Courses 3 and 4.

### METEOROLOGY

1. *General Course.* Three hours. Third Term. Davis's Elementary Meteorology. Elective for Juniors and Seniors. Not offered in 1895-96.

## XXI. ZOÖLOGY, GEOLOGY, AND ANTHROPOLOGY

Professor Packard and Mr. Gorham

### ZOÖLOGY

1, 2. *General Course.* Three hours. Second and Third Terms. Elective for Juniors and Seniors.

Professor Packard

### GEOLOGY

1, 2. *General Course.* Three hours. First and Second Terms. Elective for Seniors.

PROFESSOR PACKARD

3. *Economic Geology.* Three hours. Third Term. Elective for Seniors.

MR. GORHAM

### ANTHROPOLOGY

1. *General Course.* Three hours. Third Term. Elective for Seniors and graduates.

PROFESSOR PACKARD

## XXII. COMPARATIVE ANATOMY

PROFESSORS BUMPUS AND FIELD, DR. MEAD, MESSRS. GORHAM AND R. W. TOWER

15, 1. *Practical Vertebrate Dissection.* Four hours, six hours' attendance. First and Second Terms. Elective for Freshmen. Course 15 is a laboratory course in the Anatomy and Histology of the Frog.

MR. GORHAM

2. *Invertebrate Dissection.* Four hours, six hours' attendance. Third Term. Elective for Freshmen who have taken 15 and 1.

PROFESSOR BUMPUS

Sophomores, Juniors and Seniors may elect Courses 15, 1 and 2 by permission of Professor Bumpus.

12, 6, 21. *Introductory Biology.* General Course. Three hours, six hours' attendance. First, Second and Third Terms. Elective for Sophomores, and for Juniors and Seniors by permission of Professor Field.

PROFESSOR FIELD

10. *Normal Histology.* Three hours, six hours' attendance. First Term. Elective for Juniors and Seniors who have creditably passed on previous work in the department.

PROFESSOR FIELD

9. *Bacteriology.* Lectures and demonstrations of the various methods of bacteriological research, together with practical exercises. Three hours, six hours' attendance. Second Term. Elective for Juniors and Seniors who have passed in Comparative Anatomy 10.

MR. GORHAM

8. *Comparative Embryology.* Three hours, six hours' attendance. Third Term. Elective for Juniors and Seniors who have creditably passed on previons work in the department.

PROFESSOR FIELD

18, 19, 20. *Physiology.* Three hours, six hours' attendance. Course 18 begins in the Third Term. Elective for Juniors and Seniors who have taken Qualitative and Quantitative Analysis. Courses 19 and 20. First and Second Terms. Elective for those who have creditably passed in Comparative Anatomy 18.

MR. TOWER

3, 4. *Comparative Anatomy of Vertebrates.* Three hours. First and Second Terms. Elective for Juniors and Seniors who have pursued earlier courses in the department.

PROFESSOR BUMPUS

16, 17. *Anatomy of the Nervous System.* Three hours. First and Second Terms. Elective for Juniors and Seniors who have pursued earlier courses in the department.

DR. MEAD

## XXIII. BOTANY

PROFESSOR BAILEY

1, 2, 3. *Vegetable Morphology.* Four hours. Through the year. Elective for Freshmen who are candidates for the degree of Bachelor of Philosophy. Open to Sophomores as a three hour elective.

4, 5, 6. *Histology and Embryology of Phaenogams.* Three hours. Through the year. Elective for those who have passed in Course 1, 2, 3. Omitted in 1895-96.

7, 8. *Structure and Development of Cryptogams.* Three hours. First and Second Terms. Elective for those who have passed in Course 6. Omitted in 1895-96.

10. *Study of Mosses.* Three hours. Second Term. Elective for students who have passed in Course 6.

11. *Practice in Determining Dry Plants.* Especially those which are extra-regional. Three hours. Third Term. Elective for those who have passed in Course 6.

## XXIV. MILITARY SCIENCE AND TACTICS

PROFESSOR BAXTER

1. *Practical Exercises.* Infantry and artillery drill, small arms, target practice. Three hours. First and Third Terms. One hour. Second Term. Required of first year men. Elective for Sophomores, Juniors and Seniors.

2. *Systematic and Progressive Instruction.* Lectures in Drill Regulations, Preparation of Army Reports and Returns, Organization and Administration of the United States Army, and the Principles of Strategy, Grand Tactics, and the Art of War. Three hours. Through the year. Elective for Sophomores, Juniors, Seniors and graduates.

## XXV. BOOKS AND LIBRARIES

MR. KOOPMAN

1, 2. *Lectures and Seminary Work.* Second and Third Terms. Second Term, Historical Bibliography, Reading and its methods. Third Term, Libraries, their history, place in education, management and use. Elective for Juniors, Seniors, and graduates.

# Courses Suggested as Desirable for Students Preparing for Professions

Since the number of elective studies has become so great, students for the Ministry, the Law, Medicine, Journalism, or Architecture are not infrequently at a loss to know which branches they ought to choose. The following groups are meant to aid such, indicating the studies which a student with either of the above-named professions in view would find it to his advantage to elect, unless directed otherwise by special considerations. Competent students who complete these Courses with special thoroughness are able to save a year in professional schools. Besides serving candidates for degrees, these lists will afford direction to any students for the professions who may be obliged to limit their collegiate preparation to one, two, or three years. No degrees will be awarded at the completion of such shorter courses, but Certificates of Attainment will be furnished when desired.

## 1. Suggested Course Preparatory to the Study of Theology

### First Year

Theregular Freshman Course for the degree of Bachelor of Arts. See page 47.

### Second Year

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Rhetoric 2 | Rhetoric 3 | Rhetoric 4 |
| Rhetoric 19 | Rhetoric 20 | Rhetoric 21 |
| German 1 | German 2 | German 3 |
| Greek 6 | Greek 4 | Greek 5 |
| English 1 | English 2 | English 3 |
| Botany 1 or Comparative Anatomy 12 | Botany 2 or Comparative Anatomy 6 | Botany 3 or Comparative Anatomy 21 |

Latin or French may be substituted for Greek. Chemistry may also be taken here, and followed in the third year by Astronomy. A course in the Semitic tongues may be begun at this point, to continue one, two, or three years, displacing the studies least to the pupil's taste. Other courses in English may, for qualified pupils, be preferable to 1, 2, 3.

THIRD YEAR

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Hebrew 1 and 5 | Hebrew 2 and 6 | Hebrew 3 and 7 |
| Philosophy 2 | Philosophy 3 | Philosophy 19 |
| English 40 or 31 | English 41 or 32 | English 42 or 33 |
| Political Economy 1 | Political Economy 2 | Political Economy 3 |
| History 1 | History 2 | History 3 or 11 |
| Rhetoric 33 | Rhetoric 34 | Rhetoric 35 |

FOURTH YEAR

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| New Testament 1 | New Testament 2 | New Testament 3 and 4 |
| Philosophy 5 and 8 | Philosophy 9 and 6 | Philosophy 10 and 15 |
| Rhetoric 16 | Hebrew 4 | Music 13 |
| Social Science 1 | Social Science 2 | |

In this fourth year History may be continued instead of Philosophy. Also, Courses in Philosophy, in History, in Literature or in Biology may take the place of Hebrew or of Social Science.

## II. Suggested Course Preparatory to the Study of Law

FIRST YEAR

The regular Freshman Course for the degree of Bachelor of Arts. See page 47.

Required:

SECOND YEAR

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Rhetoric 2 | Rhetoric 2 | Rhetoric 4 |
| Rhetoric 33 | Rhetoric 34 | Rhetoric 35 |
| German 1 | German 2 | German 3 |

Elective: three courses, two from the first and one from the second of the following groups:

GROUP 1

| | | |
|---|---|---|
| Greek 6 | Greek 4 | Greek 5 |
| Latin 4 | Latin 5 | Latin 6 |
| French 4 | French 5 | French 6 |
| English 1 | English 2 | English 3 |

GROUP 2

| | | |
|---|---|---|
| Mathematics 9 | Mathematics 10 | Mathematics 11 or 12 |
| Chemistry 1 | Chemistry 2 | Chemistry 3 |
| Physics 1 | Physics 2 | Physics 3 |

THIRD YEAR

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Philosophy 2 | Philosophy 3 | Philosophy 19 |
| Rhetoric 27 | Rhetoric 28 | Rhetoric 29 |
| History 1 | History 2 | History 3 |
| Political Economy 1 | Political Economy 2 | Political Economy 3 |
| Political Science 1 | Political Science 3 or 4 | Political Science 2 or 7 |
| Elementary Law 1 | Elementary Law 2 | Elementary Law 3 |

FOURTH YEAR

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Philosophy 1 course | Philosophy 1 course | Philosophy 1 course |
| Social Science 1 | Social Science 2 | Social Science 3 |
| Political Economy 4 | Political Economy 6 | Political Economy 5 |
| History 4 | History 5 | History 6 |
| Elementary Law 1 or 4 | Elementary Law 2 or 5 | Elementary Law 3 or 6 |

## III. Suggested Course Preparatory to the Study of Medicine or Biological Science

FIRST YEAR

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Comp. Anatomy 15 | Comp. Anatomy 1 | Comp. Anatomy 2 |
| Mathematics 1 | Mathematics 3 | Mathematics 2 |
| French 1 | French 2 | French 3 |
| Botany 1 | Botany 2 | Botany 3 |

Candidates for the degree of Bachelor of Arts will take during the Freshman year the regular course scheduled on page 47.

SECOND YEAR

| | | |
|---|---|---|
| Comp. Anatomy 12 | Comp. Anatomy 6 | Comp. Anatomy 21 |
| German 1 | German 2 | German 3 |
| Physics 1 | Physics 2 | Physics 3 |
| Chemistry 1 | Chemistry 2 | Chemistry 3 |
| Rhetoric 2 | Rhetoric 3 | Rhetoric 4 |

THIRD YEAR

| | | |
|---|---|---|
| Comp. Anatomy 10 | Comp. Anatomy 9 | Comp. Anatomy 8 |
| German 4 | German 5 | German 6 |
| Chemistry 4 | Chemistry 5 | Comp. Anatomy 18 |
| Philosophy 2 | Philosophy 3 | Philosophy 4 |
| History 1 | History 2 | Philosophy 19 |
| Rhetoric 33 | Rhetoric 34 | Rhetoric 35 |

FOURTH YEAR

| | | |
|---|---|---|
| Comp. Anatomy 3 | Comp. Anatomy 4 | Anthropology |
| Comp. Anatomy 19 | Comp. Anatomy 20 | Comp. Anatomy 8* |
| Comp. Anatomy 16 | Comp. Anatomy 17 | Comp. Anatomy 3* |
| Geology 1 | Zoölogy 1 | |
| | Geology 2 | |

Students of the Fourth Year are advised to elect courses in Philosophy, History and German, in addition to the above.

## IV. Suggested Course Preparatory for Journalism

FIRST YEAR

The Freshman Course for the degree of Bachelor of Arts. See page 47.

SECOND YEAR

| *Firt Term* | *Second Term* | *Third Term* |
|---|---|---|
| Rhetoric 2 | Rhetoric 3 | Rhetoric 4 |
| German 1 | German 2 | German 3 |
| Chemistry 1 | Chemistry 2 | Chemistry 3 |
| Physics 1 | Physics 2 | Physics 4 |
| English 1 | English 2 | English 3 |

THIRD YEAR

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Rhetoric 33 | Rhetoric 34 | Rhetoric 35 |
| History 1 | History 2 | Philosophy 19 |
| English 50 | English 51 | English 52 |
| Political Economy 1 | Political Economy 2 | Political Economy 3 |
| History 4 | History 5 | History 6 |
| Social Science 1 | Social Science 2 | Social Science 3 |

*Unless previously taken.

FOURTH YEAR

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Rhetoric 16 | Rhetoric 17 | Rhetoric 18 |
| Political Science 1 | Political Science 4 | Political Science 2 |
| Political Economy 4 | Political Economy 6 | Political Economy 5 |
| History 7 | History 8 | History 9 |
| Philosophy 1 course | Philosophy 1 course | Philosophy 1 course |

To proficiency in French and German, knowledge of the Italian and Scandinavian languages might be added with advantage.

Topics relating to practical journalism are from time to time discussed before the students by men of experience. Some students while in college are able to engage in real newspaper work by acting as correspondents of Providence, Boston and New York papers.

## V. Suggested Courses Preparatory to the Pursuit of Architecture

### COURSE A

FIRST YEAR

The regular Freshman Course for the degree of Civil Engineer or of Mechanical Engineer. See pages 55 and 56.

SECOND YEAR

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Mathematics 9 | Mathematics 10 | Mathematics 12 |
| Chemistry 1 | Chemistry 2 | Chemistry 3 |
| German 1 | German 2 | German 3 |
| Physics 1 | Physics 2 | Physics 3 |
| Drawing 7 | Architecture 1 | Architecture 2 |
| Drawing 21 | Drawing 22 | Drawing 23 |

THIRD YEAR

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Philosophy 2 | Philosophy 3 | Philosophy 19 |
| History 1 | History 2 | History 3 |
| Mechanics 3 | Mechanics 4 | Mechanics 6 |
| Architecture 6 | Architecture 7 | Architecture 8 |
| Fine Arts 1 | Fine Arts 4 | Fine Arts 6 |

FOURTH YEAR

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Architecture 12 | Architecture 13 | Architecture 14 |
| Architecture 20 | Architecture 21 | Architecture 22 |
| Architecture 17 | Architecture 18 | Architecture 19 |
| Geology 1 | Geology 2 | Geology 3 |
| Drawing 31 | Drawing 32 | Drawing 33 |
| Political Economy 1 | Political Economy 2 | Political Economy 3 |

While Course A is an excellent preparation for further professional study, it is especially intended to meet the wants of those whose time and means are limited, and who must obtain at the University whatever professional training they are to possess.

For those who can afford to attend a technical institution the following Course is suggested:

## COURSE B

### FIRST YEAR

The regular Freshman Course for the degree of Bachelor of Arts. See page 47.

### SECOND YEAR

The required Sophomore studies for the Bachelor of Arts Course, and the following Electives:

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Drawing 16 | Drawing 17 | Drawing 18 |
| Drawing 2 | Drawing 3 | Drawing 4 |
| Physics 1 | Physics 2 | Physics 3 |
| Mathematics 9 | Mathematics 10 | Mathematics 12 |

### THIRD YEAR

The required Junior studies for the Bachelor of Arts Course, and the following Electives:

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Drawing 7 | Architecture 1 | Architecture 2 |
| Drawing 21 | Drawing 22 | Drawing 23 |
| Mechanics 3 | Mechanics 4 | Mechanics 6 |
| Fine Arts 1 | Fine Arts 4 | Fine Arts 6 |
| | | Fine Arts 8 |

### FOURTH YEAR

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Political Economy 1 | Political Economy 2 | Political Economy 3 |
| Architecture 9 | Architecture 10 | Architecture 11 |
| Architecture 6 | Architecture 7 | Architecture 8 |
| Architecture 20 | Architecture 21 | Architecture 22 |
| Geology 1 | Geology 2 | Geology 3 |
| Drawing 31 | Drawing 32 | Drawing 33 |

# INSTRUCTION FOR GRADUATE STUDENTS

Brown University offers excellent facilities for graduate study, to which its own graduates and those of other colleges are alike welcome. Not only are the libraries and the laboratories of the University, its seminaries, its observatory, and its various museums, all of a nature greatly to assist advanced study, but the industries of the City of Providence offer numerous and rare opportunities for special scientific investigation.

A Graduate Students' Association, composed of the students carrying on advanced courses at the University, holds monthly meetings during the year, at which papers embodying the results of special investigations are read. Addresses are also made by members of the Faculty and others on topics connected with graduate work. See further, under "Philosophy," for Philosophical Club, and under "Comparative Anatomy," for Biological Club.

The following courses of instruction are at present available for graduate students, those marked with a star being intended primarily for such students, the rest meant also for higher undergraduate work. Candidates for graduate degrees and other advanced pupils will find all of these courses, in both methods and subjects, exceedingly helpful. The numbers of the courses refer to the general conspectus, pages 57 to 96, inclusive.

## In Philosophy

All the elective courses in Philosophy are suitable for graduate students who have not taken them.

## In the Classics

*Greek* 31,* 32,* 33.* The Orators, Isaeus, Antiphon and Andocides, with Greek Historical Inscriptions. Two hours a week through the year.

*Greek* 34,* 35,* 36.* Seminary. Aristotle and Lucian. The *Politeia* of Athens alternating with select dialogues of Lucian.

*Greek* 37, 38, 39. Classical Philology. Twice a week. Through the year.

*Latin* 10, 14, 15. Private Life and Antiquities of Rome. One hour a week. Through the year.

*Latin* 11, 12, 13. History and Development of Latin Prose. Three times a week. Through the year.

*Latin* 16, 17, 18. Pliny the Younger. One hour a week. Through the year.

*Latin* 19,* 20,* 21.* Seminary in Epigraphy. Twice a week. Through the year.

*Latin* 22,* 23,* 24.* Seminary in Palæography and Textual Criticism. Twice a week. Through the year. Given in 1896-97.

*Latin* 25,* 26,* 27.* Seminary in Numismatics. One hour. Through the year.

*Latin* 28*, 29*, 30*. Seminary in Roman History. One hour. Through the year. Given in 1896-97.

## In Indo-European Philology

*Sanskrit* 1, 2, 3. Elements. Three hours. Through the year.

*Sanskrit* 4,* 5,* 6.* Advanced. Three hours. Through the year.

*Sanskrit* 7.* Aveston. Three hours. Third Term.

*Comparative Philology* 1. Introductory. Three hours. First Term.

*Comparative Philology* 2. Comparative Greek Grammar. Three hours. Second Term.

*Comparative Philology* 3. Comparative Latin Grammar. Three hours. Third Term.

*Comparative Philology* 4.* Lithuanian. One hour. Second Term.

*Comparative Philology* 5.* Old Bulgarian. One hour. Third Term.

*Comparative Philology* 6,* 7,* 8.* Germanic Philology. Two hours. Through the year. Given in 1896-97.

*Comparative Philology* 9,* 10,* 11,* Classical Philology. Two hours. Through the year.

*Comparative Philology* 12, 13, 14. Pali. One hour. Through the year.

## In Fine Arts

*Fine Arts* 1. Classical Archaeology. Three hours. First Term.

*Fine Arts* 4. Early Christian and Mediaeval Art. Three hours. Second Term.

*Fine Arts* 6. The Art of the Renaissance. Three hours. Third Term.

*Fine Arts* 7, 9. Modern Art. Three hours. First and Second Terms.

*Fine Arts* 8. Theory and Criticism. Three hours. Third Term.

*Fine Arts* 10. Critical Study of Classical Architecture. Three hours. Third Term.

*Fine Arts* 11. Greek and Roman Sculpture, from the sources. Three hours. Second Term.

*Fine Arts* 3. Pausaniae descriptio arcis Athenarum. Three hours. Third Term.

*Architecture* 23,* 24,* 25.* Colonial Architecture in New England. Three hours. Through the year.

*Architecture* 26,* 27,* 28.* History of Church Planning. Three hours. Through the year.

*Music* 7. Fugue. Three hours. First Term.

*Music* 8. Fugue and Free Composition. Three hours. Second Term.

*Music* 9. Free Composition and Instrumentation. Three hours. Third Term.

*Music* 10. History of Music. Three hours. First Term.

*Music* 11. Historical Development of Musical Form. Three hours. Second Term.

*Music* 12. Musical Analysis. Three hours. Third Term.

*Music* 14,* 15,* 16.* The Symphony. Three hours. Through the year.

## In Biblical Literature and History

*Hebrew* 1, 2. Hebrew Accidence. Three times a week. First and Second Terms.

*Hebrew* 3. Hebrew Accidence continued. Three hours. Third Term.

*Hebrew* 4. Minor Prophets of the Assyrian Period. Three hours. Second Term.

*Hebrew* 5. Hebrew History. Three hours. First Term.

*Hebrew* 6. History continued. Three hours. Second Term.

*Hebrew* 7. Wisdom Literature of the Old Testament. Three hours. Third Term.

*Arabic* 1, 2, 3. Three times a week. Through the year.

*Assyrian* 1, 2, 3. Three times a week. Through the year.

*Assyrian* 4*, 5*. Historical Inscriptions of Sennacherib and Esarhaddon. One hour. First and Second Terms.

*New Testament* 1. Gospel of Mark. Three hours. First Term.

*New Testament* 2. Gospel of Luke. Three hours. Second Term.

*New Testament* 3. Paul's Corinthian Epistles. Three hours. Third Term.

*New Testament* 4. The Life of Jesus. Three hours. Third Term.

## In Rhetoric and English

*Rhetoric* 16, 17, 18. Advanced English Composition. Three hours. Through the year.

*Rhetoric* 27, 28, 29. Oral Discussion. Three hours. Through the year.

*Rhetoric* 30, 31, 32. Oratory. Three hours. Through the year.

*English* 4, 5, 6. Shakspere. Three times a week. Through the year.

*English* 10, 11, 12. Anglo-Saxon. Three times a week. Through the year.

*English* 13, 14, 15. Oldest English Texts. Three times a week. Through the year.

*English* 24, 25, 26. Middle English. Three times a week. Through the year. Given in 1896-97.

*English* 18, 19, 37. The Novel. Three hours. Through the year.

*English* 16, 17, 38. American Literature. Three hours. Through the year.

*English* 34, 35, 36. Shakspere. Three times a week. Through the year.

*English* 40, 41, 42, English Literature from Wyatt to Milton exclusive of the Drama. Three hours. Through the year.

*English* 31, 32, 33. English Literature from Dryden to Cowper exclusive of the Novel. Three hours. Through the year.

*English* 43, 44, 45. English Poetry from Burns to Keats. Three hours. Through the year.

*English* 46, 47, 48. English Poetry of the Victorian Period. Three hours. Through the year.

*English* 50, 51, 52. English Essayists of the Nineteenth Century. Three hours. Through the year.

*English* 20,* 21,* 22.* Seminary. Two hours. Weekly. Through the year. Omitted in 1895-96.

## In History, Social and Political Science, and Political Economy

*History* 7, 8, 9. Constitutional and Political History of the United States. Three hours. Through the year.

*History* 10.* Principles of Historical Criticism. Weekly. Through the year.

*History* 12.* Practical Exercises in Historical Criticism. One hour. Third Term.

*History* 13.* History of Historical Writing in Modern Europe. Weekly. First and Second Terms.

*History* 14.* American History. Special Course. One hour. Through the year.

*History* 3. History of the Reformation. Three times a week. Third Term.

*History* 11. History of the Renaissance. Three times a week. Third Term.

*Historical Seminary.** Special meetings during each Term.

*History* 15. Islâm and the Crusades. Three hours. Third Term. Not given in 1895-96.

*History* 16. The French Revolution. Three hours. Third Term. Not given in 1895-96.

*Political Science* 4. United States Constitution. Three times a week. Second Term.

*Political Science* 5. Development of Political Theory. Three times a week. First Term.

*Political Science* 6. Roman Law. Three hours. Second Term.

*Political Science* 7. Diplomacy. Three hours. Third Term.

*Political Science* 8,* 9,* 10.* Current Political Theory and Practice. One hour. Through the year.

*Social Science* 4.* Social Philosophy. Three times a week. Second Term.

*Social Science* 5.* Development of Social Theory. Three hours. First Term.

*Social Science* 6.* Segregation of Population. Three hours. Third Term.

*Social Science* 7,* 8,* 9.* Current Social Theory and Practice. Weekly. Through the year.

*Social Science* 10.* History of Germanic Institutions. Weekly. Through the year.

*Political Economy* 4. History of Economic Thought. Three times a week. First Term.

*Political Economy* 6. Money and Banking. Three hours. Second Term.

*Political Economy* 5. Public Finance. Three times a week. Third Term.

## In Modern Languages

*German* 4-9 inclusive. Lessing, Schiller, Goethe. Six times a week. Through the year.

*German* 16, 17, 18. German Literature. Three times a week. Through the year.

*German* 10,* 11,* 12.* Middle High German. Weekly. Through the year.

*German* 13,* 14,* 15.* Middle High German, Advanced. Weekly. Through the year.

*German* 37,* 38,* 39.* Middle High German. Continuation of Course 15. Weekly. Through the year.

*German* 19,* 20,* 21.* Old High German. Weekly. Through the year.

*German* 31,* 32,* 33.* Germanic Institutions. One hour. Through the year.

*German* 28,* 29,* 30.* Germanic Mythology. Weekly. Through the year.

*Gothic* 1,* 2,* 3.* Weekly. Through the year.

*Old Norse* 1,* 2,* 3.* Weekly. Through the year.

*Old Norse* 4,* 5,* 6.* Advanced. Weekly. Through the year.

*Dutch* 1, 2, 3. Weekly. Through the year.

*Dutch* 4,* 5,* 6.* Advanced. Weekly. Through the year.

*German* 34,* 35,* 36.* Germanic Philology. Weekly. Through the year.

*German* 43, 44, 45. Scientific German. Four times a week. Through the year.

*Swedish* 1, 2, 3. Weekly. Through the year.

*Dano-Norwegian* 1, 2, 3. Weekly. Through the year.

*Old Saxon* 1,* 2,* 3.* Weekly. Through the year.

French 22,* 23,* 24.* Advanced Course in writing and speaking French. One hour. Through the year.

*French* 10,* 11,* 12.* Literature of the Nineteenth Century. Three hours weekly. Through the year.

*French* 16,* 17,* 18.* Literature of the Sixteenth Century. Weekly. Through the year.

*French* 21,* 31,* 32.* Old French. Weekly. Through the year.

*French* 25,* 26,* 27.* Provençal. Weekly. Through the year.

*Italian* 7, 8, 9. Dante in English. Two hours. Through the year.

*Italian* 10, 11, 12. Dante. In the original. One hour. Through the year.

*Italian* 13,* 14.* 15.* Classical Course. One hour. Through the year.

*Italian* 16,* 17,* 18.* Old Italian. One hour. Through the year.

*Spanish* 4,* 5,* 6.* Classical Course. Two hours. Through the year.

*Spanish* 7,* 8,* 9.* Old Spanish. One hour. Through the year.

## In Pure and Applied Mathematics

*Pure Mathematics* 11. Modern Methods in Analytic Geometry. Three times a week. Third Term.

*Pure Mathematics* 8. Theory of Equations and Determinants. Three times a week. Third Term.

*Pure Mathematics* 14. Applications of the Calculus. Three times a week. Second Term.

*Pure Mathematics* 15 and 16. Differential Equations. Three times a week. First and Second Terms.

*Pure Mathematics* 17.* Theory of Functions. One hour. Through the year.

*Pure Mathematics* 18,* 19,* 20.* Modern Algebra. Higher Plane Curves, Surfaces. Three hours. Through the year.

*Pure Mathematics* 21,* 22,* 23.* Theory of Functions. Three hours. Through the year. Given in 1896-97.

*Pure Mathematics* 24,* 25,* 26.* Differential Equations. Three hours. Through the year.

*Pure Mathematics* 27,* 28,* 29.* Substitution and Transformation of Groups. Three hours. Through the year. Given in 1896-97.

*Drawing* 9. Gearing. Three hours. Third Term.

*Drawing* 10, 11. Advanced Machine Drawing. Three hours. First and Second Terms.

*Drawing* 12. Elements of Machine Design. Three hours. Third Term.

*Drawing* 15. Constructive Geometry. Three hours. First Term.

*Drawing* 27, 28. Advanced Machine Design. Three hours. First and Second Terms.

*Civil Engineering*. Courses 5 to 21 inclusive.

*Mechanical Engineering*. All courses offered in this department are suitable for graduate students.

## In Chemistry

None of the Courses in Chemistry are exclusively for graduates; but of the advanced Courses, Nos. 4-20, inclusive, will be found appropriate for graduates who have not pursued them. Graduate students are afforded all practicable facilities for carrying on, in the Chemical Laboratory, investigations approved by the Professor in charge. Graduate degrees in Chemistry will be conferred only after a large amount of laboratory work.

## In Physics and Astronomy

*Physics* 11. Special course in Electricity. Three hours. Second Term.

*Physics* 13. Elementary Dynamics. Three hours. First Term.

*Physics* 14. Thermodynamics. Three hours. Second Term.

*Physics* 16. Hydrodynamics. Three hours. Third Term.

*Physics* 17, 18, 19. Advanced Laboratory. Three hours, six hours attendance in the laboratory. Through the year.

*Physics* 15. Electrical Engineering Laboratory. Three hours. Third Term.

*Physics* 20*, 21*. Harmonic Analysis. Three hours. Second and Third Terms.

*Physics* 22*. Behavior of matter through long ranges of temperature. Original research.

*Physics* 23*. Behavior of matter through long ranges of high pressure. Original research.

*Physics* 24*. Absolute viscosity of solids as compared with liquids and gases. Original research.

*Physics* 25*. Physical properties of the iron carburets. Original research.

*Astronomy*. For graduates who wish to pursue advanced courses in this branch, Courses 8, 9 and 10 are available, and additional work is assigned in theoretical and practical Astronomy. Such students may also assist in the regular observations carried on at the Observatory.

## In Comparative Anatomy and Anthropology

*Comparative Anatomy* 12, 6, 16. Introductory Biology. Three times a week. Through the year.

*Comparative Anatomy* 3 and 4. Comparative Anatomy of Vertebrates. Three times a week. First and Second Terms.

*Comparative Anatomy* 8. Comparative Embryology. Three hours. Third Term.

*Comparative Anatomy* 9. Bacteriology. Three hours. Second Term.

*Comparative Anatomy* 10. Normal Histology. Three hours. First Term.

*Comparative Anatomy* 18, 19, 20. Physiology. Three hours. Through the year.

*Comparative Anatomy* 16, 17. Anatomy of the Nervous System. Three hours. First and Second Terms.

*Geology* 1, 2. Three hours. First and Second Terms.

*Geology* 3. Economic Geology. Three hours. Third Term.

*Anthropology* 1. Three hours. Third Term.

*Zoölogy* 1, 2. Three hours. First and Second Terms.

## In Botany

*Botany* 4, 5, 6. Histology and Embryology of Phaenogams. Three times a week. Through the year. Not given in 1895-96.

*Botany* 7, 8. Structure and Development of Cryptogams. Three times a week. First and Second Terms. Not given in 1895-96.

*Botany* 10. Study of Mosses. Three hours. Second Term.

*Botany* 11. Practice in determining dry plants. Three hours. Third Term.

# GENERAL DESCRIPTION

OF THE

# INSTRUCTION

# IN THE SEVERAL DEPARTMENTS

## I. PHILOSOPHY

The primary aim both in the required and in the elective studies of this department, is to strengthen and discipline the mind of the pupil and, so far as possible, to render him a safe, strong, and independent thinker and investigator.

Psychology is taught as an empirical and experimental science. The philosophical problems involved, though necessarily left unsolved, are yet clearly pointed out. Thus the Junior course not only affords a constant stimulus to introspection, but also forms a valuable transition from the special sciences to philosophy. In the advanced courses the student is introduced to the chief lines of psychological experiment, and is given an opportunity to study further the most interesting problems and to pursue original investigations in the laboratory.

The courses in Logic are intended to exhibit the principles of correct thought, whether of the ordinary or of the scientific type. The course in Philosophical Introduction is meant, by awakening reflection on the ultimate problems of life and mind, to prepare the student for the higher courses in pure philosophy.

The treatment of the History of Philosophy is not merely analytic or historical, but synthetic and constructive; the successive philosophical systems are studied in their dialectical

development and mutual relations. In addition to the general courses on the history of philosophy, there are special courses for the minute study of individual authors representative of the different periods.

The practical purpose present in all the studies of this department becomes especially pronounced in Ethics, the theoretical course in which is intended to aid the student in mastering the fundamental problems of conduct and character. Special attention is given, in separate courses, to the topics of Practical Ethics and Casuistry now of such peculiar interest to the world.

In the Courses on the Philosophy of Religion, the metaphysical basis of religion is investigated, and an interpretation of the religious and especially the Christian consciousness is attempted.

In the Philosophical Seminary the more difficult problems of Logic, Metaphysics, and the Philosophy of Religion are made the subject of informal but specially thorough discussion.

A Philosophical Club, consisting of graduate and Senior students of philosophy in all its branches, has also been formed for the encouragement of the independent discussion of philosophical questions and for the fostering of a more intelligent interest in the subject among the members of the University. The Club meets once a month for the reading of papers and free discussion. Though the organization is primarily in the hands of the students, the officers of instruction in the philosophical department and other persons, interested in philosophy but not members of the University are usually present to take part in the proceedings.

The Course in Pedagogy deals with the history, theory and practice of organized education. It affords rich discipline of mind, and intending teachers, particularly, will find it invaluable as a preparation for their work.

From members of the Senior Class who have completed the course in Pedagogy offered during the Senior Year, the School Committee of the City of Providence makes appointments to

the position of Student Teacher in the Providence High School. To those thus appointed the High School serves as a school of observation and practice in connection with the graduate course in Pedagogy. In return for the services rendered in the High School the city gives such a student teacher half the pay of a regular teacher of the lowest grade. The time required each day is somewhat more than half the usual period of service. A rare and unique opportunity is thus afforded student teachers to gain a thorough knowledge of the theory of Pedagogy and at the same time practical experience in the art of teaching.

## II. GREEK LITERATURE AND HISTORY

The studies in this department are prescribed for the Freshman year and elective for the Sophomore, Junior and Senior years.

The work of the first two years is designed to secure (1) a good linguistic discipline; (2) a general view of Greek literature, brought home by careful study of representative masterpieces in various departments; and (3) as complete a view as possible of the life and genius of the Greeks and their place in the history of civilization. In connection with this work it is a constant aim to facilitate the acquisition of the language by the utmost possible use of it, as in sight reading, translation at hearing, and conversation on the subject in hand.

These studies are intended to have a certain rounded completeness in themselves, and to be at the same time a sufficient introduction to the advanced courses of the last two years.

Those advanced courses contemplate a wider range of reading and a more liberal study of literature and history in the light of our accumulated knowledge of Greek lands and peoples. Each course will cover, so far as possible, the entire extant works of an author or department of the literature. For example, the classical historians, Herodotus, Thucydides, Xenophon, and the Attic orators, in two alternating courses, may be taken as traversing the whole field of Greek History and Politics down to the death of Epaminondas, and as bring-

ing out the chief traits of Greek social life in the classical period. The present year there is given a similar course traversing the Homeric Poems entire, with a careful study of the great Mycenean age now open for their illustration. An extensive course in Plato and Lucian is also given. Still others are developed as the force of the department permits, and so arranged that any student may follow two or more of them during the last two college years. Various short courses, linguistic, literary and archaeological, are auxiliary to these.

A one-hour course in modern Greek is offered this year, thus affording some opportunity for the study of the living language and the current literature of the Greeks.

Candidates for the higher degrees are assigned courses of reading and study suited to their needs.

The President's Premiums for excellence in preparatory Greek studies are awarded after a special examination at the beginning of the Freshman year.

The Foster Premium for the highest excellence in the Greek language is awarded after a critical examination toward the close of the Senior year.

## III. ROMAN LITERATURE AND HISTORY

The studies in this department, as in Greek, are prescribed for the Freshman year, and elective for the Sophomore, Junior, and Senior years. The courses of study have been specified in preceding pages, but other authors than those named may be read in different years.

The courses of the Freshman year are based upon prose writers. While grammatical study and literary criticism receive attention, the special aim is to enable the student to acquire facility in reading, and to instruct him in the use of the Latin texts as a means of acquiring a knowledge of the public and private life of the Romans. Special topics are assigned to committees and to individual students for investigation, and lectures are given by the officers of instruction.

The courses which are open to the Sophomores relate to lyric poetry and to satire. The literary side of the study is made

prominent. The instructor endeavors to aid the student in appreciating the characteristics of Roman thought and the literary quality of Roman poetry. A part of the time is occupied with a critical study of the form and structure of the poems, while a part is devoted to rapid reading with a view to comprehending the spirit of the authors. Lectures are given by the instructor, and literary topics are assigned to the class for special study.

The advanced course, open to Juniors and Seniors, relates to the development and history of Roman literature. Poetry and prose are discussed in alternate years. The aim of these courses is to give a connected and comprehensive view of the entire range of Roman Literature. Comparatively little time is occupied with the formal work of recitation. Lectures are given by the professor on the lives and writings of the authors, and characteristic selections are read and discussed. Topics in literary history and criticism, adapted to individual tastes, are assigned to members of the class for special study and investigation.

The President's Premiums for excellence in preparatory Latin are awarded after a special examination at the beginning of the Freshman year.

The Lucius Lyon Premiums for excellence in the Latin Language and Literature are awarded after a special examination held toward the close of the Senior year.

### The Albert Harkness Classical Seminary

In the interest of high and independent scholarship in the classical departments, a commodious room has been opened in Sayles Memorial Hall for the purposes of a Classical Seminary. The Seminary was founded by Professor Albert Harkness, Ph. D., LL. D., so long and so prominently identified with Classical teaching in the University, and has been named in his honor. It is supplied with an extensive special library purchased with funds generously contributed by friends of the University interested in Classical Studies. It is the aim of the depart-

ments to make this room with its literary treasures and other appliances an attractive and inspiring place for independent work, where students pursuing special lines of study and research may find within their reach the needed helps.

The Seminary is primarily intended for graduates, but it is open also to such members of the elective classes in the departments as are qualified to profit by its advantages.

The room is lighted by electricity and is open throughout the day and evening.

## IV. INDO-EUROPEAN PHILOLOGY

The work in the elements of Sanskrit is adapted to students whose chief interest is found in the Germanic or Classical literatures and philology. It therefore presents such material as will serve to throw light on the syntax, phonology and morphology of these related languages. At the same time both the elementary and the advanced courses are adapted to those students whose main interest is in Sanskrit literature or in the study of Comparative Philology in its broadest aspect.

The courses in Aveston and Old Persian are designed to present the linguistic phenomena of those languages, and, as well, the literature, religion and civilization of the Iranian peoples.

The work in Comparative Philology is also designed both to aid students especially interested in the immediate subject, and also those who seek information accessory to their work in cognate tongues.

The introductory course offers material essential to the profitable study of the philology of the Greek, Latin or Germanic languages, treating of the history, development and classification of languages and the linguistic evidences, which reflect the life and character of the pro-ethnic Indo-Europeans.

The courses in Greek and Latin Comparative Philology deal with the phonology and morphology of those languages and the related dialects, and with their history and development as reflected in the extant material.

Lithuanian and Old Bulgarian deserve to be studied for their philological value. The Lithuanian is interesting also on account of the literature and folk-lore to which it opens a view.

## V. THE FINE ARTS

The courses of instruction in the Fine Arts are both theoretical and practical. The theoretical courses deal chiefly with the History of Art, considered with reference to peoples and periods. The purpose of each course is to show the development of Art as a whole, for the people and period selected, while tracing it in the several fields of Architecture, Sculpture, Painting, and the Minor Arts. The relation of this development to the existing political and social conditions is also carefully observed. Art is studied for its own sake, as a vital manifestation of the human spirit, and as an important factor of history. Some attention is given to Theory and Criticism of the Fine Arts.

The practical courses at present are courses of instruction in Architecture. It is hoped that instruction in the practice of the other arts may soon be added.

### History and Criticism

The courses of instruction in History and Criticism of the Fine Arts, open to Juniors, Seniors and graduate students, are of two kinds, general and special. The general courses are adapted to the acquirements of the average student, and are so arranged as to meet the needs of those who wish merely a brief but comprehensive view of the subject. At the same time they are a preparation for the special courses, for which also some special attainment, particularly in the use of the languages containing technical literature, is an indispensable requirement.

A general course in Ancient Art, or Classical Archaeology, is offered. In this a rapid review of the art of Egypt and of the Orient precedes the study of the earliest Hellenic art. The development of Greek art through its several periods and in its

different schools follows, and the course closes with the decadence of art in the Roman period. The text-book, Collignon's Manual of Greek Archaeology, is supplemented by lectures and by collateral reading. The plaster casts in the Museum of Classical Archaeology, lantern views, photographs and engravings are used to illustrate the subject.

The object of this study is to bring the student near to those quickening and controlling motives in ancient life, especially in the life of the Greek people, which found expression in the forms of Art. The attempt is made to study the most significant specimens, to note the most important facts, and to secure a solid basis for later and more special studies in Archaeology and in the Criticism of Art.

A knowledge of Greek, Latin, German and French is very helpful to those who pursue even the general courses, but is not indispensable.

In the special courses in Classical Archaeology the subject is treated more in detail, and the sources are studied. This involves reading the ancient literature on the subject, the works of modern investigators and explorers, and as critical a study of the monuments as the means of illustration at command allow.

A similar method is followed in the later periods. The earlier courses are general, brief and comprehensive, and preparatory also to the later special courses. The first of these general courses covers the history of art from the early Christian period to the end of the mediæval period. The subjects considered are the relations of the early Christian art to the decaying Pagan art, the new use of old elements and the introduction of new, Byzantine art and its influence on Arabian or Saracenic art, as well as on the art of western Christendom, and the art of the periods generally known as Romanesque and Gothic. In the study of Romanesque and Gothic, Architecture naturally has a prominent place as the predominant element in mediæval art, yet the other arts receive due consideration. The two periods are regarded as two connected

stages in a process of evolution. Brief notice is taken of art in the Orient, Persia, India, China and Japan.

Another general course treats of Art in the Renaissance. In this rich field of study the effect on art of the dominant motives of the epoch is recognized, the development of art in the different countries of Europe is traced, and the great masters and their most significant works are studied.

As a sequence to the history of the art of the Renaissance, a general course in the history of modern art is offered. The first period considered is the Seventeenth Century. Art from that century until the present day, in the various countries of Europe and in America, is then studied.

For those who wish to study the subject more thoroughly, special courses are arranged whenever a sufficient number of students apply for instruction and the time of the professor permits.

A course in the study of criticism is also offered. It is mainly a history of Aesthetics, the theory of the Beautiful.

## Architecture

The Courses in Architecture are intended not only for those who mean to be architects, but also for those who are interested in the art as a form of liberal culture. The courses in the History of Art, and those in Rendering and Design, are eminently cultivating and disciplinary. Their practical value is also great in view of the need of education in the Fine Arts and especially in Architecture. If fine buildings are to exist the public must know what good architecture is. Artistic taste is created only in an artistic atmosphere, and this is formed only by the intelligent study of the great examples and by the effort to apply the principles on which all the great works of art were created.

Training in Freehand Drawing is emphasized. Out-door sketching is required, sketching excursions being carried on during the spring and the early autumn.

The Courses in Architecture begin with the drawing of the classic Orders. The work in design proceeds from simple

problems involving the use of the Orders up to more involved programmes.

The Course in Historic Drawing, in coöperation with the historical and descriptive courses in the Fine Arts, aims to give the student a safe basis for work. The ancient masterpieces are studied and drawn both as wholes and in detail. The construction of them is analyzed and explained and their place in the line of structural and artistic development pointed out. From this course, together with the courses in the Fine Arts, the student derives the ideas and inspiration necessary in solving problems in design. At this point also becomes available the course in the History of Ornament, in which the historical development of ornament is traced through Egypt, Assyria, Greece and Rome, down to the Middle Age, both in the East and in the West, and during the Renaissance. The principal forms of each period are drawn in color. Original design is taught, based upon these forms and the ancient combinations of them. In this course the architectural student becomes familiar with details, mainly from the Freehand point of view, even before he takes up the study of the Orders, and the general student gains a knowledge of ideas which are a part of the history of the race. One who is preparing to design textile fabrics finds here the best foundation for his work.

The constructive as well as the artistic side of Architecture is dealt with. The course in Construction is taught with reference to the best practice of the day, yet the student is led to see the reason for each step he takes, and for each process and formula he discusses. Elementary construction is taught orally along with the work in Design. The more advanced course is a development of the main facts thus taught, leaving the details to be learned in practice.

## Music

The Courses in Music give the student an opportunity of obtaining an intelligent and appreciative acquaintance with music and of acquiring ability in the art of Musical Composition.

The courses in appreciation are those in musical history, form and analysis. In the course in musical history the development of music from ancient to modern times is traced; the industrial conditions, the religious movements, and the ideals of literature, painting, and architecture, which have influenced the development of music are observed; and certain typical compositions receive special attention. The development of music is exemplified by means of historical recitals. In the course in musical form the structure of music and its aesthetic significance is set forth by the instructor, while in the course in musical analysis selected compositions are analyzed by the student. Musical form and analysis is used as a means to the appreciation of the expressiveness and meaning of music, and not merely for the purpose of acquiring knowledge of the mechanical structure of music.

The courses in composition are of two orders, elementary and advanced. The elementary courses, continuing through two years, analyze the materials of composition, consider the methods of their use, study the technique of composition as practised by leading composers, and offer an opportunity for acquiring skill in composition by the writing of exercises. The work in the advanced courses is creative rather than disciplinary. The skill acquired in the elementary courses is here used for purposes of artistic creation. The courses in composition are of value to those desiring a larger acquaintance with music than the courses in appreciation can give.

The course in the study of music in its application to religious worship treats the subject historically, theoretically and practically. It has been devised for those who are to be entrusted with the conduct of services of divine worship.

Besides the above a graduate course on the Symphony is offered, consisting mainly of a study in the evolution of the symphony orchestra, and of the work of symphonists from Haydn to Tschaikowsky, Brahms and Dvorak. Other advanced courses are provided as demanded.

## VI. BIBLICAL LITERATURE AND HISTORY

In the elementary courses in Hebrew, Arabic and Assyrian, effort is made to give the student a thorough knowledge of the grammatical principles of these languages and to enable him to translate easy prose with facility. The course in Historical Hebrew is especially intended for those who have mastered the elements of the language. The aim in it is to give added facility in translation, and familiarity with the laws of Hebrew syntax and textual criticism. The minor prophets, Amos, Hosea and Micah, are studied from an exegetical and historical point of view. In connection with them, the fundamental principles of Prophecy are also considered.

The work in New Testament Greek is so arranged that students who desire may pursue consecutive courses throughout the year. The Gospel of Mark is made the basis for the study of the grammatical and literary peculiarities of the language. Especial attention is given to technical words and terms. In the study of the Gospel of Luke, the historical questions involved are carefully considered. The Corinthian Epistles are read for the purpose of gaining acquaintance with the terms, expressions and ideas which have become the framework of Christian thought. Systematic instruction in the literature and history of the Bible is given on the basis of the English version. The intimate relation between the literature and the history of the Bible is borne in mind. In presenting Hebrew History the aim is not only to follow systematically the unfolding of Hebrew life along political, social and religious lines, but also to introduce the student to the literature of the Old Testament in its proper setting. The sources for each period are collected and analyzed. While the study is critical, it is also emphatically constructive.

The life of Jesus is similarly studied, to gain a definite and true conception of its chief events and their significance in the light of their historic background.

The Course on the Wisdom Literature, considering the character, methods and work of the wise men of ancient Israel,

gives opportunity for discussing Hebrew ethical and philosophic thought in general.

All the courses in this department are open to graduate students. Additional courses are arranged for any having the necessary preparation who desire to do advanced work.

## VII. RHETORIC AND ORATORY

The main object of the Courses in Rhetoric is to give a thorough training in English Composition, though some attention is paid to the appreciation of excellence in style.

The work in Rhetoric 2, 3, 4, required of Freshmen who are candidates for the degree of Civil or Mechanical Engineer and of all Sophomores who have not taken the subject in the Freshman year, consists almost wholly of writing. During the year each student prepares twelve themes of from five hundred to one thousand words each, affording exercise in description, narration and exposition. These themes are criticised in detail by the instructors and then re-written by the students. Besides these long themes, short daily themes of a page each, in which the student is expected to tell what has interested him during the day, are required during a large part of the year. The purpose of these is to quicken the powers of observation and to cultivate ease of expression. To adapt the teaching to the needs of the pupils severally, all the instructors have frequent office hours, at which the students have opportunity to talk over their work. At the meetings of the class such subjects as the choice of words, the structure of sentences, paragraphs and whole compositions, and the various methods of description, narration and exposition are discussed; and models of style, as well as themes written by the students, are analyzed. For those who do not take elocution, additional work is laid out to make the course equivalent to one of four hours.

Rhetoric 33, 34, 35, required of all Juniors, gives no drill in oral delivery but simply in argumentative composition. Each member of the class is expected to prepare a brief based upon a masterpiece of argumentation, and then to write four arguments containing between one thousand and fifteen hundred

words each. These arguments are preceded by briefs, which are criticised and returned to the students in time for them, in writing the arguments proper, to profit by the corrections. The latter, like the themes in the Sophomore course, are to be re-written. As in that course, there are opportunities for frequent personal conferences with the instructors. At the meetings of the class the art of argumentation is discussed, parts of masterpieces are analyzed, and arguments written by the students are criticised. The subjects for the arguments are taken from current discussions in the public prints and from the various college courses, so that by a proper choice of topics students may make their work in Rhetoric help to a knowledge of public questions or of the studies in which they are specially interested.

Like that just described, the work of the advanced elective course in English Composition is distinctly practical. It aims to teach students to compose easily and well, with particular reference to the qualities of style apt to be lacking in literary productions of considerable length. Much writing is required and every theme discussed in class. The set lectures are few, and are made as practical as possible. The short themes teach pupils to write readily on such chance topics of interest as attract their attention from day to day. The long themes give practice in more careful and elaborate literary work. Pupils are exercised in description, narration and exposition. In the latter part of the year several long themes are linked in series devoted to one topic, or they give place to single themes yet longer, to afford opportunity for writing more at length than the limits of an ordinary single theme allows.

The elective course in oral discussion is a link between the courses in Composition and those in Elocution. Its objects are to give practice in collecting data for argument, to afford training in logical and forcible arrangement of thought, to develop the power of oral statement, and to teach good methods of delivery. A debate occupying two consecutive hours is held each week. Four principal disputants participate on each occasion. They are required to prepare briefs, with references,

to be posted one week before the exercise. The other members of the class are expected to prepare themselves each time sufficiently to be able to make short arguments. Matter, arrangement and delivery are criticised by the several officers of instruction present.

### Public Speaking

The purpose of the instruction in Public Speaking is to develop a natural and forcible manner of expression; not to make reciters or dramatic readers, but effective public speakers. Constant emphasis is laid upon sincerity, information, and broad culture, as more necessary to success than any arts of elocution or gesture. Special attention is given to individual training, the correction of particular faults and the cultivation of individual powers. Each student receives many hours of private drill each term. After informal lectures giving instruction in the proper use of the voice, there are weekly exercises based on choice selections from representative orators. Each speaker is criticised by the instructor and by the class, the College Critic's Tablet being used. The number of declamations required during the year is never less than six.

In the advanced course public speaking is studied in a more formal and intensive manner, but here, too, practice predominates over theory. Some attention is given to reading aloud.

The Carpenter Prize speakers are chosen by a preliminary competition held during the second term. Ten are appointed if so many show a sufficiently high degree of excellence. Those selected receive extra drill the rest of the year. Competitors for the Hicks Prize and the Seniors who speak at Commencement also receive special instruction.

## VIII. ENGLISH LITERATURE AND LANGUAGE

The elementary courses in Old English, 10, 11, are intended to serve as an introduction to the more advanced courses in language work and to prepare students to read ordinary prose

and easy poetry. Course 12 is a continuation of 10, 11, devoted to the interpretation of Béowulf. Students who do not wish to make English a specialty, but wish to lay the foundation for an intelligent understanding of the English language, may take 39 as a continuation of either 10 and 11 or 27 and 28; but it is thought that the history of the language cannot profitably be studied by students ignorant of both Old and Middle English.

To students intending to make English a specialty, are offered, in alternate years, Courses 13, 14, 15 and 24, 25, 26: the former devoted to Old English Phonology and Dialectology: the latter, to somewhat extensive reading in Middle English.

The work in Chaucer (27, 28) is linguistic, chiefly aiming to introduce the student to Chaucer's poetry and to enable him to read it intelligently. The linguistic course in Shakspere (4, 5, 6) is very similar in aims and methods to the Chaucer course; some attention is given to the literary history and sources of the six plays read, but this is made subordinate to the interpretation of their meaning. In neither course is any particular stress laid upon etymological problems.

The introductory course in English Literature (1, 2, 3) is designed as a general course for students who do not intend to pursue the subject further, and also as a preparation for more advanced literary study. The first term is devoted chiefly to training in intelligent and appreciative reading, and to study of the elements of literary form. In the second and third terms a considerable amount of reading is assigned in the principal authors from Spenser to Tennyson, and the history of English Literature is taught by means of lectures supplemented by a text-book.

The course in English literature from Wyatt to Milton (40, 41, 42) takes a rapid survey of the period. The field is too large to be studied in detail. The greater writers, Spenser, Bacon, Milton, receive somewhat general treatment; on the other hand, the lesser, such as Sydney, are treated more in full. Some slight attempt is made to sketch the political and social background and to trace the course of the more impor-

tant literary movements. The student is given a great deal of reading and written work. No student should attempt the course who is not well advanced in literary study.

Course 34, 35, 36 deals chiefly with Shakspere's plays as dramatic literature. All the plays are read, in chronological order, and ten or twelve are carefully studied. As an aid to the intelligent study of Shakspere's art, some attention is paid to the historical development of the English drama and to social and political conditions in Elizabethan England. The course cannot be taken profitably except by students who are able to read the text of the plays rapidly and intelligently; it is open, therefore, only to those students who have taken or are taking 4, 5, 6.

Course 31, 32, 33 deals mainly with the greater authors of the period. Political, social and literary conditions are dwelt on only so far as is necessary to a fair understanding of these authors. The chief works in prose and verse are read by the student outside of the class-room: in the class-room the character of each work is explained, and the personality of each author. The method is literary rather than historical.

Course 18, 19, 37 is confined chiefly to English novels of the last two centuries; the earlier history of prose fiction is briefly sketched. The Novel is studied as a distinct literary type and as an expression of contemporary thought and life. Students who cannot devote eight or ten hours a week to reading should not elect the course.

The Course in English Poetry from Burns to Keats (43, 44, 45) is partly historical and partly critical. The romantic movement in Modern English Poetry is studied in its historical development; but the larger share of time is given to interpretation and criticism of the greater poets of the period. The course chronologically follows 31, 32, 33 but may profitably be taken alone.

In course 46, 47, 48 the first term is devoted to Tennyson, the second to Browning, and the third to the minor Victorian poets. Special attention is paid to the sociological and religious thought in Tennyson, Browning, Arnold, and Clough,

and to modern tendencies of poetic form in Rossetti, Swinburne, and others. Some of the work is difficult, and the course should not be elected by students who have no special aptitude for literary study.

Course 50, 51, 52 is intended to give a fair knowledge of English essayists of this century. A good deal of rapid reading is required, and some careful study of thought and style. The course is meant more especially for students who have only a general interest in English literature; but it may also be taken with advantage as supplementary to 43, 44, 45, and 46, 47, 48, by those making a special study of the literature of the nineteenth century.

The course in American Literature has in view a study of our own authors, of both colonial and subsequent times. It is pursued, in the forms which have been successively or contemporaneously developed, in something of the following order: History, Biography, Oratory, the Essay, Poetry, Prose, Fiction, and the Serial. Instruction is given in lectures on the several periods and types, with examination of selections from the above mentioned classes of writings. Systematic reading is required, with reports, abstracts, and estimates; also essays upon assigned topics. The result sought is a general acquaintance with the entire body of American literature, a fuller knowledge of the best of it, and a correct opinion of its relative place and value in the field of letters.

## IX. HISTORY

The course of instruction in History continues throughout the Junior and the Senior year. During the first two terms of the Junior year it is required. Except in these two instances, all the courses are elective. All undergraduate elective courses are open to both Juniors and Seniors, except the courses in American History, which, it is thought, cannot be satisfactorily pursued until after the required course in European History has been completed. Besides the general course in the history of mediaeval and modern Europe, opportunity is presented for

the more detailed study of English History, of the Renaissance, of the Reformation, and of European History since 1800.

A comprehensive course in American History is given during the first two terms of the Senior year. It is succeeded by a course consisting of practical exercises in American History, by which advanced students may be trained in original research and introduced to the higher departments and methods of historical study. The work in this course is carried on with great freedom. Those pursuing it meet as a class only occasionally, by far the greater part of their instruction being given to them individually, among the books in the library. To graduate students of history, besides the opportunity of following advanced undergraduate courses which they have not previously taken, lectures are offered on the principles of Historical Criticism and on the development of Modern European Historiography. A practical course in the dissection of some portion of English History (this year the period from the Conquest to Magna Charta) illustrates the former of these courses of lectures, and trains the student in method. Training of another sort is afforded by a course of lectures dealing with topics in the History of the United States, the topics being so selected as to illustrate in various ways the general fields of our constitutional and diplomatic history.

The Historical Seminary, conducted by the Professor of History, and including the graduate students and some of the most advanced Seniors, is an organization designed to foster by co-operation the practice of original research, to familiarize students with methods more advanced than those of the ordinary college class, and to incite them to interest and active participation in the higher branches of historical work. The Seminary of Mediaeval History, conducted by the Associate Professor of History, is designed to accomplish similar results with selected students from his classes.

## X. SOCIAL AND POLITICAL SCIENCE

The undergraduate courses of instruction in Social and Political Science continue through two years. The courses of

the second year are open only to advanced and graduate students. In both Social and Political Science a continuous and systematic line of study is presented, beginning with elementary principles and leading up to the discussion of present problems.

The courses in Social Science deal with the Principles of Sociology, with the Development of Primitive Civilization, and with Modern Social Conditions and Problems. These are followed by courses in Social Philosophy, Social Theory, Early Germanic Institutions, and special investigations. Certain qualified students are assigned to practical sociological work.

In Political Science elective courses are offered in the study of the origin and development of the State, its conditions, forms, end, and functions, and in the comparative study of European Constitutions. Courses are also given in the study of the Constitutions and Politics of the United States, in International Law and International Relations, and in Diplomacy. These, with courses in the Development of Political Theory and in Roman Law, make a programme covering two years in Political Science.

A course in Elementary Law is arranged to provide such a preparation as will enable graduates of the University who thoroughly study this branch, to enter law schools with advanced standing and possibly to shorten their law course by one year. The course also affords an invaluable opportunity for those who do not enter law schools, to obtain a knowledge of the elements of law.

## XI. POLITICAL ECONOMY

The work in Political Economy comprises an elementary course and three or more advanced courses, each of three hours a week. The elementary course extends through the year and is open to Juniors and Seniors. This course is based upon lectures supplemented by reading and essays on the part of the class. The first term is devoted principally to a discussion of the nature of economics and the history of the development

of economic life; the second is an analysis of that life as we find it among the more advanced nations of to-day; the third is a discussion of the strength and weakness of the existing economic organization, the more important proposals for essential alteration in that organization, and special questions of present interest.

Each of the advanced courses occupies one term. All are open to Seniors who have satisfactorily completed the elementary course and to such students as may have done an equivalent amount of work elsewhere. The course for the first term is regularly devoted to the history of economic thought, based, for the most part, on a careful study of the authors treated. The courses for the other two terms vary from year to year, treating of such subjects as money and banking, public finance, the history of economic life, the railway problem, the tariff question, theory and history of international commerce, the labor problem, the State as factor in economic life, etc.

In addition to the above courses, advanced students of special ability are offered opportunities to meet the instructor for special work based on seminary methods.

In all courses the subject is taught from the purely scientific point of view, though the effort is constantly made to show the bearing of economic principles on questions of economic life.

## XII. GERMANIC LANGUAGES AND LITERATURES

The study of German may be pursued four years as undergraduate work, in recitations three or more times a week, and may be continued by graduate students in advanced courses of one, two or three years' duration.

Undergraduate Courses — The main undergraduate courses are those numbered from 1 to 9. They extend over a period of three years, in recitations three times a week. These courses are the centre of all the college work in the department. The aim is to lay a thorough foundation in the German language, and to give an introduction to the literature.

Several courses are regarded as auxiliary and collateral courses: a lecture course of three hours a week through the year upon the German Literature, a course of one hour in German Composition, three parallel courses of one hour each in Scientific German, and courses in Swedish, Danish, Norwegian and Dutch, and in Middle High German. See numbers 10 to 18 and 42 to 45.

GRADUATE COURSES — These include elementary and advanced courses in Middle High German, Old High German, Old Saxon, Old Norse, Gothic, Germanic Philology, Germanic Mythology, and Germanic Institutions. These courses are designed primarily for students enrolled for advanced degrees. The aim in them is to lay a foundation in the early literature, languages, mythology, history and institutions of the German nations, and to make a comparative study of the languages. A Germanic Seminary is connected with these courses, in which graduate students do advanced work under the direct supervision of the officers.

1. *Courses in German Literature*—The chief purpose of Course 16 is to "orient" the student briefly in the whole field of German literature and to prepare him for a more critical and detailed study of the New High German period of bloom. Lectures are given upon the history, institutions, and character of the early Germans. The earliest pieces of literature are analyzed; the era of Karl the Great is carefully studied; and the great epics with the lyric poetry of the Swabian era are examined in detail, special attention being given to the *Nibelungenlied* and the *Meistersänger*. The Renaissance, the Reformation, and the Imitative School of the Seventeenth Century are discussed. Special topics are assigned to each member of the class for essays, and a weekly report upon collateral reading must be submitted by each student.

The modern period of literary bloom is then taken up, the life and works of the most prominent writers are carefully examined, and extensive readings are required from each author studied, as found in Müller's *German Classics*. Many

selections are read aloud in the class. The phases of literary movement known as *Die Aufklärung*, *Der Göttinger Dichterbund* and *Die Sturm-und Drangperiode*, and the writers connected with each, are studied. Students are required to examine critically assigned topics and submit essays and reports.

In Course 17 attention is given almost wholly to the life and works of Goethe and Schiller. Extensive readings are required from their works and each member of the class must read one dissertation before the class. In Course 18 special attention is given to the Romantic School.

2. *Composition.* These courses may be elected by any who have studied German not less than one year, but are eligible only in connection with one of the regular courses. The purpose is to acquire facility in writing the language.

3. *Scientific German.* These courses are open to those who have studied German not less than one year. Students who pursue the regular courses 4 to 9 may elect one or more of these courses, but students who do not pursue the regular courses are required to take all three of these courses if any.

The object is to prepare the student to read modern scientific German, so that those whose main work lies in natural science may be able to use with profit the standard works of reference, scientific journals and monographs published in the German language. These readings are so conducted as to give as extended a view as possible of scientific terminology.

4. *Swedish and Dano-Norwegian.* The object of these courses is to teach enough of the language in either case to enable pupils to read with ease the masterpieces of the Scandinavian literature.

5. *Dutch.* Dutch is at present offered only for those who have had at least one year of German. Acquaintance with the best literature is made at the very outset, and a comparative study of English, German and Dutch forms speedily insures to the student a copious vocabularly. This work is philological and literary, very important for the specialist in German or

English. If supplemented later by a study of the spoken language, it assumes great practical value.

6. *Middle High German.* In the first year the student is introduced to the rich literature of the Swabian era. The larger part of the *Nibelungenlied* is read in class and lectures are given upon the Epic. Subsequently the greater part of Walther von der Vogelweide is read, as well as selections from the other Minnesingers, while in the most advanced course the Court Epics are the centre of study. All the courses in Middle High German are mainly of a literary character.

7. *Old High German.* The courses cover one year and, like those in Old Saxon, Gothic and Old Norse, enable students to broaden their foundation in Germanic Philology. Attention is directed almost entirely to the linguistic side of the study.

8. *Old Saxon.* These courses are devoted to the study of the Old Low German or Old Saxon, and of its relations to the Old High German on the one hand and to the Old English on the other.

9. *Gothic.* The forms and syntax of the *Ulfilas* are studied with much care, as offering the best foundation for a comparative study of the Germanic dialects in their relation to the other Indo-Germanic languages.

10. *Old Norse.* The first year's courses in Old Norse are devoted to the study of the language and of those mythological works which are of first importance and general interest. The second year's courses are devoted to the prose sagas.

11. *Germanic Philology.* These courses are comparative; in one direction with the Sanskrit, Greek and Latin of the Indo-Germanic family, and in the other with the Germanic dialects in their old, middle and new literary forms.

12. *German Mythology.* These courses consist of an examination into the number, character and credibility of our sources for a knowledge of Germanic Mythology. The modern critical historical method is applied to the study, and by the

aid of comparative mythology, the origin of some of the most important myths that have impressed themselves upon Germanic Literature is traced.

13. *Germanic Institutions.* The purpose of this course is by lectures to trace the origin and development of the political and social institutions of the different Germanic peoples as a basis for advanced study in German History and Literature.

## The Germanic Seminary

Many of the courses detailed above are of the character of Seminary Courses. The work in them is done under the immediate supervision of the instructors, at the rooms of the Germanic Institute, where all the members, officers and students meet once each month for the presentation of original papers, journal reports, and for discussion. The purpose of the Seminary is to concentrate and render effective all the advanced work of the department, to train the student in the methods of literary and philological research by encouraging original investigations, and to impart that enthusiasm which is gained by association.

Special attention is given to candidates for advanced degrees. All the work of such candidates is under the immediate supervision of the head of the department, who meets weekly throughout the year each candidate preparing for the Doctor's examination.

## The Germanic Institute and Library

Two commodious rooms, Nos. 6 and 7, in Sayles Memorial Hall, have been set apart and furnished for the use of the Germanic Institute. In these rooms is the "Conant German Seminary Library," a special collection for the exclusive use of the Germanic Department, collected by Professor Williams in Germany, in the name of the principal donor, Hon. Hezekiah Conant. Many other generous contributors have added to the fund, until now the library contains over six thousand selected volumes, including editions of all the principal

writers in German literature; a large collection in Philology; all the leading literary and philological *Zeitschriften;* many works upon German History, and upon the History of German Literature, Law, Art, Palaeography and Geography. The library is especially rich in works of the Middle High German Period, and in Goethe and Schiller literature. It also abounds in works of art which illustrate the subjects taught, bronzes, copper and steel plate engravings and illustrated books. A Scandinavian alcove will be added and the other sections still further enriched. All the officers of the department have their private studies in the Institute and are thus brought into daily contact with their advanced students. The rooms are open from 8 A. M. until 10 P. M., and in term time one or more of the officers may be found there during these hours.

## XIII. ROMANCE LANGUAGES AND LITERATURES

### French

Candidates for degrees are at their entrance into College examined in French Grammar and in reading easy French prose at sight. For those who offer German instead of French, a special course is arranged during the Sophomore year, though all are earnestly advised to do their first year's work in French before coming to College. The work of the Freshman year, which is required, is devoted to the study of the language. The object of this course is to enable the student to read ordinary French with but occasional reference to grammar or dictionary. Two hours a week throughout the year are devoted to rapid translation after preparation, and to translation, at sight, of contemporary novels and plays. One hour a week the instructor reads in French to the class, translating only when necessary, with the object of familiarizing pupils with the spoken language and of weaning them from dependence upon English as an intermediary between the text and the thought. Great stress is laid upon this part of the work. Owing to the size of the classes nothing can be here attempted in the way of writing or speaking. Provision for

this want is made later in a special course. After the Freshman year all courses are elective, and, with the instructor's approval, may be taken by any.

Course 4, 5, 6 is devoted to the literary study of the masterpieces of the Classical and Romantic schools, special attention being given to Molière and Hugo. Owing to the size of the class, the instructor presents the matter to the class in the original, with the necessary linguistic and literary comments, leaving the proficiency of students to be tested by examinations based upon the class-room and outside reading.

Course 33, 34, 35 consists of lectures on the history of the literatures of France, Italy and Spain. The class take notes and are also provided with a text-book in French. These courses are distinctly literary and artistic in their object, and are intended, in connection with Italian 4, 5, 6, to introduce undergraduates to the rich field of Southern European literature in its relation to the literature of Germany and England.

## Graduate Courses

All courses other than the above are intended for Seniors or graduate students desiring special attainments in French. A one-hour course is offered in French grammar, including practice in writing French, in connection with which some effort is made toward speaking French. The literature of the eighteenth and of the sixteenth century is read with references to the political and the artistic movements of the times, some attention being paid to the development of diction and of spelling. The course in Old French Literature serves also as an introduction to the study of Romance Philology. Special programmes of study and investigation are arranged for candidates for advanced degrees.

### Italian and Spanish

In the introductory Italian and Spanish courses the general aim is similar to that of the Freshman course in French, namely, the acquisition of ability to read modern authors

easily. The classic courses are literary, and necessarily devoted to the study of the great masterpieces of the two literatures.

In Italian 4, 5, 6, the whole of the Divina Commedia is presented to the class, the more important cantos being studied in the original. It is hoped that this course will induce a large number of students to take the previous course in Italian.

### The Romance Department Room

A special room, Sayles 4, has been set aside for the use of advanced students in the Romance Department. A choice special library has been begun, and here all graduate courses are conducted. The professor or one of the instructors is constantly at hand to give informal assistance and advice to those admitted to these privileges. A large number of books have already been collected, and it is hoped that gifts from friends of the University, not only in the way of books but of engravings and works of art illustrating the literatures studied, will soon increase the value as well as the attractions of this important feature of the department's work.

## XIV. PURE MATHEMATICS

Mathematics is prescribed during the Freshman year for all students entering College who are or intend to become candidates for degrees, and during the Sophomore and Junior years for candidates for the degrees of Civil and Mechanical Engineer. Except as thus specified, Mathematics is an elective study. The required courses are essential to a thorough knowledge of the elementary principles of mathematical science, which prepare the student for advanced mathematical work. They serve also to discipline the mind in careful analysis and strict logical methods of thought, and to develop the reasoning powers. They likewise cultivate the invaluable faculty of exact expression.

In the higher elective classes in the Pure Mathematics the aim is also two-fold : first, mental discipline for those students

who do not intend to pursue the subject further; and second, a thorough mathematical foundation for those who desire to make mathematical studies a specialty.

## XV. DRAWING

Instruction in Mechanical Drawing is based upon Pure Mathematics. The aim is to teach men not simply how to draw, but how to think and investigate for themselves. Rules and formulas employed in problem construction are used only after they have been thoroughly discussed and satisfactorily proved. Both the theory and the practice of the subject are taught, and an effort is made to bring before the students those principles which will be most needed in handling the complicated problems of the mechanical world. All work in the department is regulated by a schedule, which defines the nature and amount of work to be accomplished each week. Drawings which fall below the standard are rejected, and reconstructions required. In this way tendencies toward carelessness are corrected, and a good quantity and quality of work is secured.

In Freehand Drawing students are required to make sketches of models as they appear from individual points of view. The aim is to render the eye quick and accurate in observation and the hand skilful in representation. The course in Constructive Geometry is a direct application of Pure Mathematics. Problems are assigned without any directions in regard to their solution, and students are required to investigate and report.

In Machine Drawing, machines are taken apart and fully explained. The various portions are then sketched, named, detailed and assembled. The assembly drawing, which is a combination of the details, is constructed from the details, and not from the machine itself.

A library for the use of students interested in Mechanical Engineering has been begun in the drawing room. Through the generosity of friends a number of valuable works have been secured and funds are in hand for the purchase of others.

The instruction in practical Architecture bears the closest relation to that given in the department of Drawing, and happily supplements this at almost every point.

## XVI. CIVIL ENGINEERING

The course of four years leading to the degree of Civil Engineer is designed to give students a thorough preparation, both in theory and in practice, for the profession of Civil Engineering. Special stress is placed upon the fundamental principles of Mathematics and Mechanics and their applications to practical problems.

The student is trained to think and investigate for himself and the spirit of original research is encouraged and applauded.

The course consists entirely of prescribed studies. Students however who are not candidates for the degree of Civil Engineer are privileged to elect any subject in the course if they have the requisite preparation.

During the Freshman and Sophomore years the work is essentially preparatory and includes the general literary and scientific subjects indispensable in any technical course. The work of the Junior and Senior years is essentially professional and includes the actual design of many engineering structures.

During the First Term the actual preliminary survey and location for a railroad line from two to five miles long is made somewhere near the city of Providence, and the data thus obtained are mapped in the conventional manner. During the Second and Third Terms special reference is made to the materials of construction, the general theory of railroad location and construction, and the line run during the First Term is discussed in relation to the principles thus discovered.

The course in Hydraulics supplements the courses in Mechanics 7 and 8, which give the theoretical treatment of the subject. A prominent feature of the course is "seminary work" in various branches of Hydraulic Engineering, an

assigned subject being investigated by the student and a short thesis thereon presented for discussion.

As a preliminary to the general subject of Structures the student is obliged to make detail drawings of an existing bridge and thus become familiar with the relation which the various members bear to each other. A thorough course in stresses is then given, the problems being solved both graphically and analytically. Finally the design of one or more trusses conforming to recent practice is required. Throughout the course, typical rather than exceptional forms of roofs and bridges are discussed.

Besides a general treatment of Masonry the course comprises the design of right and oblique arches and retaining walls with reference to particular locations. Plaster models are made of many of the stones forming the arches as designed, and the details of stereotomy thus shown.

In Sanitary Engineering the text-book is intended merely as a guide, seminary work and lectures being the main features of the course. The city of Providence offers many sanitary problems and many specimens of difficult constructions. Numerous visits to such are required and, where possible, the details of work are shown and explained.

Laboratory investigations in strength of materials, use and adjustments of instruments, testing cements, etc., are a prominent feature of the Senior instruction.

The graduation thesis must be technical in character and embody the results of experimental or original research on the part of the student. The subject selected and scheme of treatment must be submitted to the Professor for approval.

As a thesis calls forth, to their fullest extent, the logical and discriminating powers of the student, it is given an important position in the curriculum.

## XVII. MECHANICAL ENGINEERING

The course leading to the degree of Mechanical Engineer consists entirely of prescribed studies and occupies four years.

Any part of the course may be separately elected by students who have received the required preparation.

In the courses in Elementary, Mechanical and Freehand Drawing, Descriptive Geometry and Shades, Shadows and Perspective, the student is given a good foundation for that class of subjects which consist partially or wholly of Drawing. Among such subjects taken up in this course are Machine Drawing, Gearing and Machine Design. In Machine Drawing the student makes Freehand sketches from machines, and constructs detail and assembly drawings from his sketches. In Gearing, a thorough discussion of the principles of toothed gears is accompanied by accurate construction of practical cases by means of drawing. In Machine Design the student solves, by means of drawing and calculation, a progressive series of practical problems; these problems involving a knowledge of the ordinary mechanisms which are discussed in the course in Kinematics, and of the strength of materials and structures treated in Mechanics.

The following are among the subjects considered in Mechanics: The laws governing motion and force; statics of rigid bodies; theory of the centre of gravity in surfaces and solids; equilibrium and dynamical stability of bodies rigidly fastened; resistance of friction; elasticity and strength of flexure, shear and tension; the use of the graphical process in determining strains on girders, trusses and arch ribs; the structures of masonry, including foundations, retaining walls and arches; hydraulics, embracing the structure and use of hydraulic machines, the investigation of the laws which govern the flow of water from reservoirs, and the flow of water in rivers, canals and conduit pipes, and water as a motor.

While the experimental determination of the strength, elasticity and other useful qualities of metals and materials properly form part of an engineering laboratory course, their origin, nature, and preparation are subjects for class-room discussion, and are treated as such. The part relating to the reduction of the various metals from their ores is taken up in detail, and so far as possible illustrated with the lantern and

slides. Special attention is given to the methods of manufacturing iron and steel.

A short course is given in Laboratory Methods, whose object is to explain the equipment of the Engineering Laboratory, methods of carrying on various tests, methods of calibration, and the details of laboratory standards.

The Engineering Laboratory course is extremely important, consisting of practical experiments with the apparatus and materials of engineering. It comprises efficiency tests of both steam and gas engines, boilers, steam pumps and various forms of motors; calibration of the various instruments used in engineering practice; belt and lubricant tests; comparison of different methods of power transmission; also experimental determinations of the strength of the various materials of engineering.

The Courses in Thermodynamics, Steam Engines and Boilers discuss the fundamental principles of Thermodynamics as applied to various heat engines, especially the steam engines; the distinctive mechanisms of steam engines, and the types and modes of construction of steam engines and boilers. These courses are followed by a course in Steam Engineering, in which the principles of Thermodynamics and the results of experimental investigations are applied to the solution of advanced problems in designing steam engines and boilers.

The workshop course is intended to give the student not only a knowledge of the various tools and machines used in mechanical processes, but also to make him familiar with the methods of accurate construction. The work usually begins with the ordinary operations of the carpenter. In pattern-making as much time as possible is given to details such as the core-box, proper allowance for shrinkage, finishing patterns with special regard to ease in moulding, etc. The different mechanical processes and machine tools used in metal working, and the operations for the performance of which the machines were particularly designed, are taken up later. It is intended by means of a series of progressive exercises to develop a maximum amount of manipulative and constructive skill in

the handling and making of various tools and parts of machines. Where exceptional ability is shown, the student is encouraged in the construction of a complete machine, of value either in the market or in the general work of the University.

A graduation thesis is required from all students taking the degree of Mechanical Engineer. It may be one exhibiting research, or an account of some original investigation carried on by the student. In either case it must exhibit satisfactory ability in the student as an engineer, gained during his course.

Both in the drawing-room and in the workshop a graduating piece is demanded which shall show proficiency in those departments.

## XVIII. CHEMISTRY

The Department of Chemistry is intended to afford instruction in the general principles of Chemistry, in Analytical Chemistry, and in the practical applications of these subjects. Opportunity is afforded for studies in Metallurgy, Medical Chemistry, Agricultural Chemistry, and in the chemistry involved in the bleaching and dyeing of textile fabrics.

The courses are not confined to undergraduates, other persons, if prepared to pursue the study to advantage, being admitted; but a knowledge of the general principles of Chemistry is absolutely necessary to profitable work in any of the more advanced courses.

The course for the first year covers three grand divisions: the study of the non-metals, of the metals, and of the carbon compounds. The course for the second year includes qualitative analysis and elementary quantitative analysis. Work in the other branches mentioned may follow that specified for the first two years. In all cases students perform laboratory work and attend lectures. The lectures in this department deal with the experiments of the students, and also with chemical philosophy, stoichiometry, and new applications of chemical substances in recent inventions.

The Courses 1, 2, and 3, called Descriptive Chemistry, include also Experimental and Theoretical Chemistry. The lectures are illustrated by experiments and colored charts and by blackboard exercises.

Qualitative Analysis includes a study of the properties of the metallic elements together with their separation from certain of their compounds, also of the chief non-metals and the acids produced by them.

Elementary Quantitative Analysis includes a study of quantitative precipitations and separations of the most important elements and compounds, and a somewhat thorough review of the principles upon which quantitative apparatus is constructed, including the theory of the chemical balance, the merits of the different systems of weights and measures, the use of burettes, graduated flasks, etc.

Course 9, Advanced Quantitative Analysis, includes the assaying of metallic ores, the analysis of agricultural materials, including commercial fertilizers, the testing of chemicals used in textile establishments, etc. Students are also required to prepare and read before the class essays on a series of assigned subjects relating to chemical manufactures.

Courses 10, 11, 12, Organic Chemistry, include an extended series of exercises in the preparation and testing of organic compounds. These compounds are so selected as fairly to represent the different branches of this important department.

Courses 15, 16, Medical Chemistry, include a thorough study of certain animal products, such as normal urine, morbid urine, various calculi, etc.

Course 20 includes the scouring and dyeing of wool, the cleansing of wool in the fleece, the removal of burs, the preparation and use of the necessary mordants, dye stuffs, etc.

The Chemical Laboratory is open to students from 8.30 A. M. to 3.30 P. M. on every week day except Saturday.

For laboratory fees, see Index, under " Expenses."

## XIX. PHYSICS

All the courses of instruction offered by the Department of Physics are conducted in Wilson Hall. This building was specially designed and constructed for a physical laboratory. The general lecture room is large and well ventilated, and contains all the necessary conveniences for the experimental demonstration of lectures. Seven laboratory rooms are provided for the experimental study of Physics, each room being adapted to the investigation of a particular branch of the subject, or available for the arrangement of classes according to

proficiency. Brick piers are provided for the support of instruments requiring great steadiness, and the magnetic rooms are as free as possible from iron and other disturbing influences.

The cabinets are well supplied with apparatus, both experimental and demonstrative, and frequent additions are made as necessity requires. In all such cases selections are made with a view to use in the students' laboratory as well as in the lecture room, and to the exclusion of merely exhibitional apparatus.

I. *Elementary Courses.* General Course 1, 2, 4, is designed for those who have had little previous training in Physics, and presupposes only a good knowledge of the elementary mathematics such as that offered in Mathematics 1, 2, 3. Instruction is given by lectures amply illustrated by experiments. The progress of the student is tested by weekly written exercises, all of which are carefully corrected in detail by the professor and the instructors, and serve as models for the term examinations. The entire course extending through three terms is essentially a unit. It is the aim of these lectures to set forth the principles of Modern Physics and to exhibit the gist of physical method and thought as accurately as this can be done in an elementary course. Daniell's text-book is closely followed. Particular stress is placed upon Dynamics, in the direction of the scheme of development laid down in Kelvin and Tait's book.

The General Laboratory Course 5, 9, 10, is arranged to follow the work in Course 1, 2, 4 as closely as possible. It may be undertaken by the students in connection with that course, or preferably after its completion. The work consists entirely of quantitative experiments performed by the student, and every effort is made to give him thorough familiarity with physical apparatus and the scientific methods of exact measurement. Every student is required to present a written report of each experiment performed, and his standing is based on the neatness and accuracy of these reports.

II. *Electrical Engineering Courses.* These courses are designed for those who wish to obtain a practical knowledge of

Electricity. Course 3 is intended to develop the elementary mathematical principles of Electricity and Magnetism. In Course 11 these principles are applied to the design of dynamos and motors and the general theory of electrical testing is taken up. In both courses the progress of the class is tested by numerous examples and frequent written exercises. Course 15 consists of actual tests by the student, of dynamos, motors and measuring instruments, and his standing is based on the neatness and accuracy of his written reports of the work he has done.

By the additional space to be available this year the facilities for practice work in electrical engineering will be considerably enlarged.

III. *Advanced Courses.* These are intended to develop the elementary mathematical theory of the subjects treated, and to lay a broad foundation for the future study of theoretical Physics. Students electing advanced work are expected to have a good command of Mathematics and to have mastered the general principles of Physical Science as set forth in the elementary courses. Course 13 is intended to present in a mathematical form the dynamical problems that lie at the basis of all theoretical Physics. Numerous original problems are assigned from time to time and occasional written exercises are held to test the progress of the class. The purpose of Course 14 is to develop the fundamental problems and theories of Thermodynamics and to apply these to the theory of heat engines and the dynamical theory of gases. In Course 16 the general equations of motion of a perfect fluid are developed and applied to the solution of simple problems.

In Course 20 the importance of Fourier's method of harmonic analysis in the solution of partial differential equations is shown and illustrated by examples taken from the analytical theory of heat, from the theory of alternating electric currents, from the acoustic elastics, and elsewhere.

The advanced laboratory Courses 17, 18, 19, are intended for those who are already familiar with the use of physical

apparatus and are capable of carrying on investigations more or less independently. Special problems are assigned to each student and he is referred to original sources for methods of solution. Great care is taken to develop accuracy of observation and neatness and clearness in the written reports of experiments, all of which are criticised by the professor in charge. A permanent record of the results obtained is registered in a book kept for that purpose at the Laboratory, the name of the observer and date of observation being inscribed in the usual way.

IV. *Graduate Courses.* The Physical Laboratory is open daily, except Saturdays, from 9 A. M. to 4 P. M., for those whose previous training warrants their undertaking original investigation. When necessary, special rooms are alloted for such work, and the instructors in charge are glad to supply every facility consistent with the regular work of the Laboratory.

Equipment for special investigation has been courteously placed at the disposal of the Laboratory by the U. S. Geological Survey and by the Smithsonian Institution. Students duly qualified are given access to this apparatus.

For special expenses in the Physical Laboratory see Index, under "Expenses."

## XX. ASTRONOMY

The courses of study offered in Astronomy are eight, three lecture courses in General Astronomy and five laboratory courses in Practical Astronomy. The lecture courses are designed to acquaint the student with the fundamental conceptions of the science, the methods of its professional study, and the present state of our knowledge of the heavenly bodies.

A general treatise on Astronomy is made the basis of these courses and is supplemented by lectures and by abstracts upon assigned topics prepared by members of the class. The laboratory courses comprise a technical study of the theory of astronomical instruments and practice in their use. The sextant, transit, zenith telescope and equatorial are taken up

in turn, and the astronomical problems of Navigation and Geodesy solved by actual observation and calculation.

### The Ladd Astronomical Observatory

The Observatory is equipped with a Saegmuller-Brashear equatorial of twelve inches aperture, which is supplied with a filar micrometer, spectroscope and other attachments; two transit instruments, one of which can be used as a zenith telescope; a chronograph; two astronomical clocks; several sextants and chronometers; recording meteorological apparatus; and various minor instruments. The equipment is available for illustrating the general courses in Astronomy and for practical use in the applied courses open to undergraduates and graduates.

The Observatory furnishes constant time signals to the Rhode Island Electric Protective Company, by which they are distributed to its patrons. Routine observations for determining clock errors, and for pressure, temperature, humidity and precipitation are made throughout the year. Special observations are also made as opportunity offers.

## XXI. ZOÖLOGY, GEOLOGY, AND ANTHROPOLOGY

General Zoölogy is taught to the Juniors and Seniors by lectures, the use of a text-book, and by demonstrations. It is the aim to adapt the lectures to the needs of the general student. The principles of Zoölogy, the laws of Animal Morphology, the development of the animal kingdom from monad to man, and the relations of animals to the world about them and to man, are discussed, as also the subjects of heredity, hybridity, the variation of species, and the views now held by different schools of evolutionists.

The course in the third term is partly devoted to vertebrate zoölogy and in part to the factors of organic evolution, including segregation or isolation, geographical distribution, dimorphism, heredity, the variation of species, the influence of the environment, the effects on organisms of changes of climate,

of temperature, light, darkness, food, parasitism, natural and sexual selection. The history of the rise of the theory is also given, as well as the principles of Lamarckism, Darwinism and Weismannism.

## Geology

Instruction in Geology is given by means of lectures, laboratory work and field excursions, with especial reference to the geology, structural and economic, of Rhode Island. The lectures are aided by diagrams, models in wood and plaster, lantern views illustrating volcanoes, earthquakes, glaciers and other geological phenomena, and by fossils. The fossil flora of Rhode Island is fully represented, and important animal remains of the Rhode Island carboniferous rocks were added in 1888 and 1889. Since then other illustrative material has been supplied.

The instruction includes a brief course of laboratory work in elementary Mineralogy and Lithology. Many duplicate crystals have been purchased, and the students are allowed to use them freely in their work. A special study collection of minerals and rocks has been formed.

The instruction in Economic Geology consists of lectures and text-book drill on common rock and vein-forming minerals, useful minerals, ore-deposits and ores, building stones and road materials. The course is adapted to the needs of the students in civil engineering.

Through the kindness of Commander Bartlett, U. S. N., two large models from the office of the United States Hydrographic Bureau, Washington, one of the Atlantic ocean-bottom and one of the Carribean sea-bottom, have been placed in the lecture-room. Additional models in plaster and *papier machè* were added in 1892. Since then many lantern slides illustrating the formation of coral reefs, vulcanism and glacial geology have been procured, as well as numerous casts and fossils.

### Anthropology

Instruction in Anthropology is offered as a Senior elective in the third term, consisting of a course of lectures on the physical or natural history of Man. It embraces the principles of Ethnology, Ethnography, and Prehistoric Archaeology. The course treats of man as related to other primates, including the differential characters of man; the origin of man; the human races; the prehistoric races and the antiquity of man; language and race; writing; the arts of life; amusements; primitive culture, including folk-lore, myths, primitive religious cults; child study and primitive society.

The course is illustrated by a series of bone, stone and bronze relics of the pre-historic races of Europe, by American stone and bone implements, by collections from New England shell heaps, and by lantern views illustrating the fossil races of man and his art remains in the Old World. Essays and collateral reading are required from the class.

This course, with the courses on Zoölogy and Geology, is designed to present a connected outline of the history of creation, including the evolution of the North American continent, and of the life upon it, as well as the origin of man, and of primitive culture.

## XXII. COMPARATIVE ANATOMY

The general system of study in the department of Comparative Anatomy extends through four years and is specially planned for those who intend to enter medical schools, though certain less technical courses are regularly elected by students who wish to gain a general knowledge of biological phenomena as a foundation for or as an extension of courses in zoölogy, botany, social science, ethnology, pyschology and theology.

Practical Vertebrate Dissection, Comparative Anatomy 15 and 1, is offered as an elective during the first two terms of the Freshman year. Six hours are spent each week in the dissection of the frog and the cat, and methods of anatomical preparation and demonstration are discussed. The popularity

of this course has necessitated the enlargement of the laboratory. A new room has been recently equipped. It is eminently desirable that students should become thoroughly acquainted with the general anatomy of the vertebrate body before electing the more special courses offered in this department.

The location of the University upon the shores of Narragansett Bay offers exceptional opportunities for Invertebrate Dissection, and a thorough course of study on the anatomy of the lower and intermediate animal forms has been arranged for the Spring term, Comparative Anatomy 2. Living marine animals are brought to the laboratory, and starfish, sea-anemones, mollusks, marine worms and crustaceans are dissected and thoroughly studied. During the term a limited number of collecting excursions are made to localities along the shore. Though Comparative Anatomy 15, 1 and 2 are regularly offered as electives to B. P. Freshmen, the courses may be taken by candidates for other degrees during subsequent college years.

Introductory Biology, Comparative Anatomy 12, 6, 21, during the Sophomore year, deals with the general morphological and physiological characters of organisms. It aims to set forth the broad and fundamental principles which underlie all living things both animal and vegetable. This course is adapted to the student who wishes to make a knowledge of Biology a factor in his intellectual life, and who seeks training in scientific methods. The types studied are few and so selected as to elucidate the meaning of such terms as protoplasm, nutrition, growth, reproduction, metabolism, cell-genesis, differentiation, evolution, heredity, ontogeny, phylogeny, etc.: and further, the relation of the cells to the organism as a whole, the reciprocal relations of organisms, the morphology and physiology of fertilization. The simpler methods of biological work, including microscopical technique, are taught. The forms studied include yeast, Hæmatococcus, Amœba, Spirogyra, Bacteria, Vorticella, Hydra, Bracken fern and Earthworm.

During the Junior and Senior years the courses are of a more special nature and are designed only for those especially interested in the subject.

During a portion of the Junior year one hour each week is devoted to the reading of a brief German text-book in Anatomy. The work done in this class is not received as the equivalent of work done in the department of German. It is additional to all regular work, and hence not formally credited to the student.

The courses in Normal Histology, Bacteriology and Embryology, Comparative Anatomy 10, 9, 8, are open only to those who have creditably passed in previous courses in the department, and who have shown a fitness for the work.

Physiology, Comparative Anatomy 18, 19, 20, begins the third term of the Junior year and continues through the first two terms of the Senior year. A preparation in Qualitative and Quantitative Analysis equivalent to Chemistry 1, 2, 3, 4 and 5 is prerequisite. A new laboratory has been recently equipped with the more necessary apparatus, and the entire course is thoroughly practical. Special stress is laid upon the importance of chemistry and much of the time is spent in chemico-physiological work.

In advanced anatomy four courses are planned for members of the Senior class and these may be supplemented by extra work as the student may desire. Two courses, Comparative Anatomy 3 and 4, treat of the Comparative Anatomy of Vertebrates and extend through the fall and winter terms. The anatomical collections of the University are here made of special use, not only for demonstration but for actual dissection. The several systems of the Vertebrates—bony, digestive, circulatory, reproductive, excretory, etc., are studied comparatively. Wiedersheim's text-book is used, though most of the time is spent in laboratory work. The remaining two Courses, Comparative Anatomy 16 and 17, are devoted to the anatomy, histology and physiology of the Nervous System, and, as is the case with Comparative Anatomy 3 and 4, are open only to those who have creditably passed on previous work in the department.

*The Biological Club*, composed of the instructors and students, meets at frequent intervals for the examination of current biological literature, and for the discussion of biological questions.

The members also engage in field work, to augment the University's collection of Rhode Island fauna.

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Rhode Island Hall is now almost exclusively given up to biological science. The south lecture room is devoted to zoölogy and geology, while physiology is located in the east basement. The room once used as a laboratory for general anatomy is devoted to advanced work. The laboratories are well equipped with microscopes, microtomes, re-agents, embryological and bacteriological incubators, etc., and a fine series of wax models has been recently purchased.

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*Marine Biological Laboratory.* The University controls two of the tables in the Marine Biological Laboratory at Wood's Holl, Mass. Students who creditably pursue at the University certain courses in Zoölogy or Comparative Anatomy may receive appointments to these tables, where, during the summer months, rare opportunities are offered for biological investigation.

## XXIV. BOTANY

Instruction in Botany is given by means of lectures and laboratory practice, collateral reading and essays being also required. The course occupies three years.

The first year is devoted to General Morphology and to practice in analyzing and describing plants. A few difficult families, such as *Compositae*, *Cruciferae*, *Umbelliferae*, *Grasses*, *Sedges*, and *Ferns* are especially treated.

In the Histological course the microscopic structure of the higher plants is studied in connection with lectures, and instruction is given in microscopic technique. Only students of marked attainments in Botany are permitted to take this course.

In the Cryptogamic course the lower orders of plants are studied by means of certain types. Lectures accompany the laboratory work.

Original work and observation are encouraged. Students are required to make illustrative drawings from the objects studied. It is designed in all cases to foster independent reasoning and thoughtful comparison.

The Herbarium consists mainly of the collections of various botanists, that have from time to time been given or bequeathed to the University. Those of Col. Olney, particularly rich in the genus *Carex*, Mr. Bennett, Prof. Bailey, Miss Stout (mostly ferns) and Mr. Brownell are the most prominent. In addition to these many specimens have been obtained by exchange, purchase and smaller donations. The collections of Olney, Bailey, and Stout, are nearly all mounted; the remainder, more than one-half, are mainly unmounted. These collections are now nearly all merged in one general Herbarium.

They are roughly estimated to contain in all about 40,000 sheets, representing specimens from more than 60,000 localities. As the price of good botanical specimens, unmounted, ranges from seven to ten cents each, the commercial value of these may be approximately estimated, although intrinsically they are invaluable. The arrangement of orders and genera of the flowering plants is according to Bentham and Hooker's *Genera Plantarum;* that of the ferns according to Hooker's *Synopsis Filicum.*

The Herbarium furnishes the means by which allied species and genera, maturing at different seasons and in widely separated countries, are critically studied, side by side, and their affinities or differences duly observed, recorded and published to the world. It is also the invaluable reference for the satisfactory determination of closely allied and varying species of many difficult genera which are, at times, almost impossible to separate by the best of printed descriptions.

Under proper restriction all the botanical exhibits are made accessible to the public and to students.

For the slight special fees connected with botanical study, see Index, under " Expenses."

## XXV. MILITARY SCIENCE AND TACTICS

Instruction in these branches is given by an officer of the United States Army, regularly detailed for this purpose. For three hours per week during the Fall and Spring Terms and one hour per week during the Winter Term, military drill, accompanied by the appropriate theoretical explanations, is required of all Freshmen and of all special students of the first year unless they are excused for physical disability or other sufficient cause. Each of these students is required to provide himself with the University uniform—blouse, trousers, cap and gloves. Neat and very serviceable uniforms are furnished through the University, at a cost not exceeding $13.50 apiece. All necessary arms, ammunition and equipments are provided by the United States Government.

The infantry instruction embraces the school of the soldier, of the company, and of the battalion, besides drill in ceremonies and in small-arm gallery and target practice.

The artillery instruction includes the manual of the piece, mechanical manœuvres and firing drill.

Officers are selected and appointed irrespective of class, according to proficiency and particular fitness.

Artillery detachments are selected by the commandant from the students most accomplished in infantry drill.

Target practice is held under the immediate supervision of the commandant, and every precaution taken to guard against accident.

On the graduation of each class, the names of such students as have shown special aptitude for military service are reported both to the Adjutant-General of the United States Army and to the Adjutant-General of the State of Rhode Island. The names of the three students most distinguished in the studies and work of this department are, upon graduation, inserted in the *United States Army Register* and published in general orders from the headquarters of the army.

# GENERAL INFORMATION

## The University Extension

PROFESSOR WILFRED H. MUNRO, A. M., DIRECTOR

The purpose of the Extension is to afford the benefits of University teaching to those who cannot attend a University. Lecture Courses are given in any place easily accessible from Brown University, upon any subject for which there is a sufficient popular demand.

The aim of the instructor is to make his course of ten weekly lectures cover about the same ground which a college class would go over in ten weeks. The teaching scheme comprises Lectures, Class-Work, Essays, Reports, etc.

In Modern Languages, German, French, Spanish, Italian, the work is similar in every respect to that of the college class-room. An examination, voluntary, is held at the close of each course, and certificates are awarded to those who pass it.

The University charge for a course of lectures is one hundred dollars ($100).

The Centre is required to pay the traveling and hotel expenses of the lecturer.

Experience has shown that the best work can be done in small classes, of from thirty to fifty persons, and that an attempt to popularize a course is unwise. The end and object of the Extension is not to amuse but to teach.

It is recommended that each Centre charge a fee of $3 per person for each course. This will necessitate a guaranteed attendance of thirty-five people. Where several courses are

carried on by the same Centre, an average attendance of thirty-five should be secured.

All communications respecting the Extension Work should be addressed to Professor W. H. Munro, Director of the University Extension, Brown University, Providence.

## Educational Privileges for Women

By vote of its Corporation on September 2, 1891, the University opened all its examinations to women. By a further vote on June 21, 1892, it opened all its degrees to women. By a third vote on June 23, 1892, to women already holding Bachelors' degrees, and to other women of liberal education who may secure special permission, it opened, on the same terms as to men, all those of its courses of instruction which are intended for graduate students.

That is, so far as its graduate department is concerned, the University places women on exactly the same footing as men. In respect to instruction, examinations, and degrees, the two sexes are treated precisely alike. The expenses, too, are the same. See below, under "Expenses," "Special University Dues," 6.

In undergraduate studies the University offers to examine all women candidates, and to crown with any of its degrees every woman candidate who passes all the examinations required for the degree sought; but, in this department, the University, as such, does not yet offer to women any class-room instruction. First rate undergraduate instruction for women, is, however, provided otherwise. See next page.

The conditions of women's examinations upon undergraduate work are as follows:

Women take entrance examinations at the same times and places and under the same conditions as men. See pages 36-44 inclusive. But women candidates may present certificates in place of entrance examinations, subject to the same condi-

tions which apply to men. All women's examinations in college studies are to be taken at the University, none elsewhere.

To be admitted to advanced examinations, candidates must have passed all entrance examinations, as well as all examinations which cover the work of previous terms.

The subjects for women's examinations, when not identical with those in the courses of instruction given in the University, in all cases closely correspond to them.

Reports of proficiency are given after all examinations. Upon the satisfactory completion of any minor course of study, candidates are given certificates of their attainments, while those who complete with credit any of the regular curricula, of course receive diplomas.

## The Women's College

IN CONNECTION WITH

## BROWN UNIVERSITY

COMPOSED OF UNDERGRADUATE STUDENTS WHO ARE REGULAR CANDIDATES FOR BROWN UNIVERSITY EXAMINATIONS RECEIVING UNOFFICIAL INSTRUCTION IN COLLEGE STUDIES

LOUIS FRANKLIN SNOW, A. M., DEAN AND TREASURER

The considerable number of women candidates for undergraduate examinations has induced gentlemen in the faculty to institute systematic teaching in preparation for these examinations. Classes are formed in all the required studies, and are instructed by the same men who have in charge the corresponding classes inside the University. Individual preferences in electives are specially provided for. There has thus sprung into existence a Women's College, technically and legally under the University only so far as its examinations are concerned, yet in effect a Department of the University, so closely connected are examinations with the instruction therefor.

Pupils are admitted to select courses covering but single terms, and even to work in single branches.

Each applicant for registration in such a course must present to the Dean sufficient evidence of her ability to pursue successfully the subject chosen. Also, every select student, unless specially excused by the Dean and by the Professor in charge of her course, must prepare for and pass an examination at the completion of her course.

Admirable arrangements for Physical Culture have been made, whereby the privileges connected with the new and elegant gymnasium of the Providence Athletic Association are open to the students of the Women's College on Tuesdays and Fridays from 2 to 3 P. M., from October 1 to June 1. Exercise is taken under the personal supervision of a competent lady instructor. For this gymnasium privilege a special fee is charged. It is $10.00 per annum, payable in advance.

The Sarah E. Doyle Scholarship for young women, consisting of one thousand dollars, has been founded by the lady whose name it bears, the income to be applied toward the payment of the tuition of students in the Women's College who have been prepared for college in the Providence High School.

The Rhode Island Women's Club annually devotes the income of its Churchill Fund toward the payment of the tuition of some worthy student in the Women's College.

The Gaspee Chapter Daughters of the American Revolution Prize, of forty dollars, offered by the Gaspee Chapter of the D. A. R., is to be paid annually to that student in the Graduating Class of the Women's College who shall present the best essay upon some topic in American History.

The topic for the year 1895-96 is, "The Naval History of Rhode Island in the Revolution, including Privateering." The essays are to bear each an assumed name, but to be accompanied each by an envelope marked with such assumed name and enclosing a sheet of paper with the candidate's real name and address. The essays must be handed to the Dean of the Women's College before May 15, 1896. The award will be

announced on Commencement Day, when the topic for the ensuing year will be named.

The students of the Women's College are entitled to compete in all examinations for premiums and prizes offered by Brown University. Women candidates successful in such contests receive collateral prizes awarded by the Dean.

## Expenses

To women pursuing undergraduate studies the charges are as follows:

*For Instruction:* $2.50 per term, or $7.50 a year, for every hour of instruction per week. Thus, each full course of studies involving the usual fifteen hours of class-room attendance and instruction a week, costs $37.50 a term, or $112.50 a year. Laboratory charges are additional to this. These sums are fixed as nearly as possible by the actual cost of the instruction.

*For Entrance Examinations:* $3 for examination leading to a single course; $10 for a full set.

*For Term Examinations:* $10 for each full set, viz., examinations on any full term's work. For examinations upon work requiring less than fifteen hours of class-room attendance a week, the fee is 75 cents per weekly hour's work. Thus, the examination upon a course which requires three hours in class-room weekly costs $2.25; one upon a course of six hours, $4.50; and so on.

*For Matriculation:* Every undergraduate candidate for a degree pays, upon admission to the College, a matriculation fee of $5.

*For Registration:* Every special student pays, upon admission to any term course, a registration fee of 25 cents.

*Graduation Fee:* Every member of the Senior Class pays, at the close of her course, a fee of $8 for her diploma and other expenses connected with graduation.

It will be seen that the total cost to each student, including the examination fees to the University, is under $150 a year,

therefore somewhat less than the tuition and incidental expenses of a student in the University proper.

Before each University examination period the Dean of the Women's College files with the Registrar of the University a list of all undergraduate candidates for University examinations who are approved by the instructors in the College, thus certifying to the fitness of the candidates to undertake the examinations desired; but no candidate is approved whose term bill or examination fee is not paid or satisfactorily arranged for.

Ladies from a distance wishing to avail themselves of the educational opportunities offered by the University find homes in private families. Every effort is made to provide such for any who may apply.

The Women's Department of the University must soon have an ample, permanent home of its own, a well endowed and commodious college establishment, presided over by an accomplished lady principal. Half a million dollars is needed for this purpose, partly for a suitable building (two contiguous ones would be preferable), with kitchen, parlor, dining, recitation, exercise and debating halls, and dormitory accommodations for fifty or seventy-five occupants; the remainder for scholarships and endowments. No mere "annex" is intended or desired. The College must be part and parcel of the University, giving women students the full university status, and at the same time so furnished, endowed and equipped as to offer them every facility for education, physical and social, as well as intellectual, now anywhere within the reach of male students.

## The University Library

The University Library dates from the year 1767, when the Rev. Morgan Edwards collected books for it in England. In 1843, when Professor Jewett's Catalogue was printed, soon

after the removal of the books from University Hall to Manning Hall, the Library contained ten thousand volumes.

In 1878, the date of their transference to the present building, the volumes numbered forty-eight thousand. At present the total number, including the collection of the Soldiers' and Sailors' Historical Society and the books in the seminary and various department libraries, aggregates over eighty thousand bound volumes, and upwards of twenty thousand unbound pamphlets.

The collection of the Soldiers' and Sailors' Historical Society consists of newspaper cuttings from 1861 to 1865, neatly arranged in folio volumes, and of books and pamphlets relating to the Civil War, together constituting an invaluable mass of sources for the history of that period. They are placed in handsome walnut cases on the third floor of the building, and are easily accessible for consultation. The main library is stored in the beautiful building which the University owes to the munificence of the late John Carter Brown. The style is the Venetian Gothic. The arrangements are commodious, the facilities for warming and ventilation are perfect, and the whole structure is strictly fire-proof. The books in the Classical Seminary, numbering fifteen hundred volumes, were purchased by Professor Albert Harkness, from funds contributed for this purpose by friends of the University. The collection is devoted chiefly to the language, literature, and antiquities of the ancient Greeks and Romans. The books in the Conant German Seminary Library, see page 136, number more than six thousand five hundred choice volumes, relating to the German language and literature. A very promising beginning has been made in equipping a Romance Seminary Library, for which further funds are much needed. These seminary libraries are in Sayles Memorial Hall. The Chemical, Physical, Botanical, and English department rooms also contain important working collections of books.

The Library has recently been re-arranged on the system of classification first devised for the library of the Boston Athnæum. On the first two floors are shelved the

books most in use, the entire west wing of the Library on the first floor being given up to History, the north wing to periodicals, alphabetically arranged, and Fine Arts, while the east wing is occupied by works on Language and Literature. On the third floor are kept certain special collections, such as works devoted to Rhode Island History, Brown University, Baptist History, Bibliography, and Patents, besides many thousand volumes of works least frequently consulted, all arranged according to the classification adopted for the lower floors. All purchases are carefully made with reference to the needs of the different departments in their work of research, while at the same time there is kept in view the development of a library of general culture for the use of the students. Though many of the volumes are rare and costly, free access is allowed to the shelves. Upon the corner tables in the central Reference Room on the first floor are kept the latest numbers of the standard periodicals, American and foreign. Behind them, conveniently arranged, are books of reference, while the shelves on the main table are devoted to books reserved by the departments.

The Library funds amount to fifty-seven thousand dollars. Of this sum ten thousand dollars is a bequest from the late Professor Gammell, for the purchase of books relating to the History of the United States. Ten thousand dollars constitute the Olney Fund, for the purchase of botanical books and plants. The Diman Memorial Fund of ten thousand dollars is for the purchase of works on mediaeval and modern history. The remainder forms the Library Fund proper. To this the Hon. Nicholas Brown contributed ten thousand dollars. It also includes a bequest of five hundred dollars from President Wayland, and one of a thousand dollars from the late Albert J. Jones. Additions to these funds are earnestly requested.

The Library is open during term time from 9 A. M. until 10 P. M., and from 1 till 10 P. M. Sundays; the Sunday hours and the regular hours from 5 till 10 P. M. being for reference use only.

During the second and third terms the Librarian offers to Juniors, Seniors and graduate students a seminary course on Books and Libraries.

The following is a list of donors to the Library during the college year 1894-95, the address in each case being Providence unless otherwise indicated:

## Persons

Ethan Allen, N. Y.; J. J. F. Amidon; President E. B. Andrews; Prof. J. H. Appleton; G. R. Atha; H. S. Babcock; E. S. Balch, Phila.; Dr. C. E. Banks, Portland, Me.; J. W. Black, Oberlin, Ohio; Prof. E. W. Blake; E. W. Blake, Jr.; F. E. Bliss, Surrey, England; A. S. Bolles, Harrisburg, Pa.; Prof. W. C. Bronson; K. Burger, Leipzig; J. M. Burnham; G. C. Chapin, Chicago; C. C. P. Clark, Oswego, N. Y.; H. Clark, Pawtucket; Gardner Colby, N. Y.; C. C. Couillard; Dr. R. N. Cust, London; B. F. Da Costa, N. Y.; Rev. A. Dalton, Portland, Me.; E. Dawes, London; H. B. Dawson, N. Y.; Countess of Derby, Kent, England; R. T. Durrett, LL. D., Louisville, Ky.; Miss Sarah J. Eddy; G. H. Ellis, Boston; H. L. Everett, N. Y.; Rev. D. B. Ford, Hanover, Mass.; E. L. Freeman; Prof. H. B. Gardner; Mrs. T. P. I. Goddard; E. L. Godkin, N. Y.; Prof. G. C. Gow, Smith College, Northampton, Mass.; Arnold Green, LL. D.; Dr. S. A. Green, Boston; T. Hanbury, London; Rev. S. F. Hancock, Cleveland, Ohio; J. L. Harrison; M. J. Harson; Rev. S. Haskell, Kalamazoo, Mich.; Rev. H. A. Hazen, Boston; Ratcliffe Hicks; U. Hoepli, Milan; W. Holden, Phila.; M. Hull, Chicago; Rev. A. J. Huntington, Washington, D. C.; J. Jackson, Worcester, Mass.; B. W. James, Phila.; D. W. James, N. Y.; H. W. Kegwin, Norwich, Conn.; J. P. Kelley, Greenwich, Conn.; E. R. Knowles, LL. D., Boston; Librarian H. L. Koopman; A. G. Langley, Newport; Mrs. Charles Lanier, N. Y.; Hon. Oscar Lapham; H. Le Soudier, Paris; G. F. Libbie, Boston; A. A. Macurda, Watertown, Mass.; L. C. Newell, Pawtucket; Prof. A. S. Packard; Sara A. Palmer, Phila.; Dr. G. B. Peck; E. L. Pierce, Milton, Mass.; Prof. John Pierce; Dr. W. Pepper, Phila.; J. L. Peyton, Staunton, Va.; Prof. W. C. Poland; S. Powel, Newport; Rev. D. A. Quinn; Rev. C. A. L. Richards; Prof. F. E. Rockwood, Lewisburg, Pa.; Prof. Adrian Scott; E. P. Seaver, Boston; C. Seldemeyer, Paris; J. H. Shedd, City Engineer; Mrs. A. D. Sheffield, Attleborough, Mass.; Mrs. T. P. Shepard; The King of Siam; C. H. Smith; W. A. Spicer; J. W. Sullivan, N. Y.; Miss Mabel Temple; A. R. T. Truex, Binghampton, N. Y.; S. M. Vose; W. S. Webb, N. Y.; Hon. G. P. Wetmore, Newport; W. W. Whitman, Troy, N. Y.; Prof. G. G. Wilson; R. C. Winthrop, Jr., Boston.

## Institutions and Corporations

American Academy of Arts and Sciences, Boston; American Association for the Advancement of Science, Salem, Mass.; American Baptist Missionary Union; American Baptist Publication Society, Phila.; American Board of Commissioners for Foreign Missions; American Book Company, N. Y.; Ancient and Honorable Artillery Company, Boston; Andover Theological Seminary; Appleton and Company, N. Y.; Argentine Republic; Asiatic Society of Japan; Babcock and Wilcox Company, N. Y.; Bangs and Company, N. Y.; Boston City Government; Boston Public Library; Boston Record Commissioners; Bowdoin College; Brown and Sharpe Manufacturing Company; Brunonian; Bunker Hill Monument Association; Bureau of Labor, Boston; California World's Fair Commission; Canada Geological Survey; Canadian Department of Archives; Chicago University; Cincinnati Chamber of Commerce; Civil Service Commission; Civil Service Chronicle, Indianapolis; Clapp and Company, N. Y.; Club of Odd Volumes, Boston; Colby University; Columbia College; Connecticut State Department; Cornell University; Delta Phi Fraternity; Free Masons, G. R. A. Chapter of Mass.; Funk and Wagnalls, N. Y.; Georgia Agricultural Department; Ginn and Company, Boston; Gould and Tucker, Boston; Hartford Seminary Record; Harvard College Observatory; Harvard Graduate Club; Harvard University; Illinois Labor Bureau; Illinois University; Indiana Academy of Science; Indiana Bureau of Statistics; Interstate Commerce Commission, Washington; Journal of the Society of Arts, London; Kansas Academy of Science; Ladies Home Journal, Phila.; Lick Observatory; Long Island Diocese Convention; L'Université Royale, Christiania; McMillan and Company, N. Y.; Massachusetts Agricultural College; Massachusetts Historical Society; Massachusetts State Board of Health; Massachusetts State Library; Manchester, N. H., Water Commissioners; Maynard, Merrill and Company, N. Y.; Minnesota State Geologist; Missouri Botanical Garden, St. Louis; National Civil Service Reform League; Nebraska University; New England Society, N. Y.; North Carolina Experiment Station; New Jersey State Board of Education; New Jersey State Library; Newton Theological Institution; New York State Library; New York University Club; New York World's Columbia Exposition Managers; Superintendent of Education, Halifax, Nova Scotia; Packer Collegiate Institute, Brooklyn, N. Y.; Pawtucket Manufacturing Company; Pennsylvania State College; Perkins Institution for the Blind, Boston; Providence Athnæum; Providence City Government; Providence Commissioner of Public Schools; Providence Factory Inspectors; Providence Public Library; Providence Record Commissioners; Rhode Island Board of Educa-

tion; Rhode Island Episcopal Convention; Rhode Island G. A. R. Department; Rhode Island Historical Society; Rhode Island State Board of Health; Rhode Island State Board of Soldiers' Relief; Rhode Island State Goverment; Rhode Island State Registry of Births, Marriages, and Deaths; Royal Society of Canada; St. Louis Library; John F. Slater Fund Trustees; Silver, Burdett, and Company, Boston; Stevens and Haynes, London; Theta Delta Chi Fraternity; Minister of Education, Toronto; Union Club, N. Y.; Washington—Department of the Interior, Treasury Department, Departments of State, War, Navy, Agriculture, Bureau of Education, Bureau of American Republics, Bureau of Navigation, Commissioner of Labor, Commissioner of Fish and Fisheries, Civil Service Commission, Senate Finance Committee, Smithsonian Institution, etc.; Wisconsin Academy; Wisconsin Bureau of Labor; Wisconsin State Department; Yale University.

## OTHER LIBRARY FACILITIES

Besides the University Library, the five collections of books named below are practically at the service of students in Brown University, comprising, with the University Library, a quarter of a million volumes, exclusive of pamphlets and manuscripts. These six combined collections afford library privileges such as can be found at but very few seats of learning in this country. The first three libraries named are entirely free, and the other two are readily available.

### The Providence Public Library

All students of Brown University are allowed, upon the same conditions as other residents of the city, to make use of the well selected Public Library of Providence, containing over 72,000 volumes, which enjoys a national reputation for excellence of management. It is situated at 73 Snow street, and is open every day in the year. The hours on ordinary days are from 10 A. M. to 9 P. M.; and on Sundays and legal holidays from 2 to 9 P. M. The Librarian, a graduate of Brown University, prepares lists of references on various topics which are of service to students, the more extended of which are printed in the Monthly Bulletin of the Library. He is glad to be consulted with respect to books on any of the departments of University teaching. On the history of Slavery and of the Civil War this library possesses one of the richest collections in America.

### The State Law Library

This collection of 18,000 volumes may be consulted in the Providence County Court House, at the corner of Benefit and College streets, only a few steps from the University, between the hours of 9 A. M., and 5 P. M. It is accessible to all students and, for certain lines of University study, is invaluable.

### The Library of the Rhode Island Historical Society

The Cabinet of the Rhode Island Historical Society, which has recently undergone extensive enlargement, is situated on Waterman street, next door to the University Library Building. The Library of the Society comprises 15,000 bound volumes, and 40,000 valuable unbound volumes and pamphlets. Through the courtesy of the Society the collection is made accessible, free of charge, to members of the University. It offers especial facilities for thorough research not only in all subjects relating to the history of Rhode Island, but also in many departments of general American history. The collection is open regularly from 9 A. M. till 4 P. M., on Saturdays from 9 A. M. till 1 P. M.

### The Library of the Providence Athenaeum

The Athenaeum, chartered nearly sixty years ago, occupies a field peculiar to itself. It aims to furnish a home library, larger, better arranged, more useful and more attractive than that within the means of any individual shareholder, and its growth is along the lines of general literature. The library numbers some 57,000 volumes, and the reading room receives upwards of 150 papers and magazines, including New York, Boston and Providence daily papers and American, English, German, French and Italian weeklies, magazines and reviews. By a recent vote of its Directors, professors or teachers, non-residents of the city, may become annual subscribers on the payment of four dollars in advance, and any student of

Brown University whose family does not reside in the city, or who may obtain special privilege from the board, may become a subscriber for three months on the payment of one dollar in advance. Such subscribers have the right to take out books and use the rooms of the institution in the same manner as shareholders and under like regulations.

The Athenaeum is kept open during the college year, from 9 A. M. to 10 P. M.

THE LIBRARY OF THE RHODE ISLAND MEDICAL SOCIETY

This is a collection of over twelve thousand books and pamphlets upon medicine, surgery, and kindred branches. Many of them relate to Physiology, Physiological Psychology, Hygiene, and other subjects pursued in the University. Arrangements are easily made whereby any student can, without cost, enjoy the privileges here offered. This Library is in the Arnold Block, 54 North Main street. It is open every afternoon from 2 to 6 o'clock.

## The Sears Reading Room

The Sears Reading Room Association, conducted by the students, occupies a large, commodious, and well-lighted room, conveniently situated on the first floor of University Hall, fitted up especially for its use, and supplied with all the most important newspapers, daily and weekly, as well as with a variety of the more popular periodicals. The learned and scientific reviews, standard literary magazines and technical journals may be consulted in the University Library.

## Brown University Lecture Association

An organization of graduates and friends of the University, called the Brown University Lecture Association, sustains

each winter several courses of free public lectures upon topics in various departments. During the winter of 1894-95, the following courses were given:

Professor T. W. Rhys Davids, LL. D., of University College, London, gave six lectures on the History and Literature of Buddhism; Mr. Louis C. Elson of Boston lectured five times upon the music presented in the successive concerts of the Boston Symphony Orchestra; Professor George L. Goodale, LL. D., of Harvard University, gave four lectures entitled "Glimpses of the Natural History and Ethnology of Australasia;" a course of five lectures on the Founders of New England was given by Dr. Edward Everett Hale, Dr. Wm. E. Griffis, Mr. Wm. B. Weeden, the President of the University, and Rev. Joseph H. Twichell, who treated of Elder Brewster, Gov. Bradford, Gov. Winthrop, Roger Williams and Thomas Hooker respectively; and Professor Hermon C. Bumpus of Brown University lectured on Modern Biological Research.

During the season of 1895-96 a new and rich course of lectures is offered to the students and the public:

All these lectures are free to the public, who are most cordially invited to attend. Persons desiring further information or wishing to become sustaining members of the Association are requested to communicate with the Secretary, Professor J. Franklin Jameson, 196 Bowen street.

## Art Collections

### PORTRAITS

Through the liberality of its friends the University possesses a large number of valuable portraits. Most of them are hung in Sayles Hall, which is thus made one of the chief centres of attraction on the University grounds. The collection receives accessions every year. It now includes portraits of the University's principal benefactors, of some among its former

officers, and of many other distinguished persons, Americans and foreigners. The history of Rhode Island is especially well represented. The Hall is fire-proof. The utmost pains is taken and much expense incurred to keep these treasures in perfect order. Yet they are made both to the University and to the larger public as completely accessible as is consistent with their proper preservation.

### THE MUSEUM OF CLASSICAL ARCHAEOLOGY

IN MANNING HALL

By the further generosity of its friends the University has been enabled to institute a Museum of Classical Archaeology. A collection of plaster casts from works of classical art has been placed in Room No. 1, Manning Hall, which has been appropriately arranged and decorated for this purpose. They are of rare excellence, and of great value for illustrating ancient history, biography and art.

The number of casts in the Museum has been considerably increased by recent donations. The last addition to the collection consists of casts from the Elgin marbles in the British Museum. Further additions will be made soon.

## The Museums of Zoölogy and Anthropology

IN RHODE ISLAND HALL

### The Jenks Museum of Zoölogy

This Museum is arranged according to modern methods of classification, beginning with the lower invertebrates and ending with the mammals. It includes materials not only for general work but for special investigation. There are on exhibition in the gallery, separate from the synoptic collections below, local collections representing the fauna of Rhode Island. Students giving special attention to Zoölogy are

allowed to take from the cases such specimens as they need, the aim always being to make the Museum not merely an exhibition room but a place for work.

### The Museum of Anthropology

Properly to house and exhibit the rapidly growing stores of anthropological matter, a special hall contiguous to the Museum of Zoölogy has been fitted up, permitting a synoptic arrangement of the contents and otherwise greatly facilitating study. This work was done under the superintendence and entirely at the cost of the late Professor John Whipple Potter Jenks, A. M., who served so long and faithfully as the Curator of the original Museum. The Museum of Anthropology contains a great number of rare implements from foreign countries, as well as many once the property of the aboriginal races in in our own land. Prehistoric Anthropology is well illustrated by implements of stone, bone, and bronze, with casts, models, and photographs, either collected or purchased by Professor Packard in 1889. They represent France, Italy, England and Switzerland, materials from the Lake Dwellings of Switzerland being especially numerous.

## Religious Culture

This is deemed to be of the utmost importance. The public duties of every day begin with religious exercises in the beautiful Sayles Hall, at which all undergraduate students are required to be present. These are usually conducted by clergymen of different denominations. Among those officiating this year are Rev. Floyd W. Tomkins, Jr., Rev. Henry M. King, D. D., Rev. Matthais S. Kaufman, Ph. D., and Rev. James G. Vose, D. D. All students are desired to attend divine worship on Sunday. The Young Men's Christian Association has meetings on Wednesday evenings during term time,

to which all students are welcome. The Bishop Seabury Association holds a service every Friday afternoon. In addition each class has its own meeting for prayer and conference on Friday afternoons.

The numerous courses of study in the Department of Biblical Literature and History, while thoroughly scientific, are taught from religious and philanthropic as truly as from scientific motives, with the wish to render the oracles of the Christian religion more than they are or have ever been a source of intelligent delight and of high inspiration to educated men.

A Bible Class for students, conducted by the President, meets on Sunday mornings at half-past nine, and a number of other classes, instructed by members of the faculty, meet weekly for the earnest and critical study of the Scriptures.

## Physical Culture

The authorities of Brown University consider the attainment of robust physical health as among the most important aims of residence at College, necessary alike to high scholarship in College, and to the successful performance of duties which arise in later life.

In this view a rational and well regulated system of Physical Training has been devised and is in successful operation. A due measure of such training is required of every undergraduate connected with the University, unless he is physically unable to engage in it.

The Director of the Gymnasium gives each student, upon entering College, a thorough physical examination, at which measurements and strength tests are taken. From this examination a chart is made out for every student, showing his size, strength and development, and how he compares with the normal standard. Along with these data is given a card indi-

cating how the student's weakness, if any exist, may be remedied, and affording advice in reference to bathing and the general care of the body.

From November until April each pupil is required to exercise four hours a week in the Lyman Gymnasium. This is a building of beautiful architectural design, equipped with all the apparatus usually found in modern structures of the kind. Most of this exercise occurs in classes.

For class drill, the Freshmen swing Indian clubs ; the Sophomores employ dumb bells ; the Juniors engage in single-stick exercise; the Seniors use fencing foils, advancing, retreating, thrusting, and parrying at the word of command. As a supplement to these drills each class is separated into four divisions, which perform exercises upon chest weights, horizontal and parallel bars, and other apparatus. The movements executed are graded to correspond with the strength and advancement of the several divisions. During the Sophomore and Junior years boxing and wrestling are carried on, also in classes. These forms of exercise carefully conducted prove to be in the highest degree popular and beneficial.

The remainder of the required four hours per week each student devotes to the fulfilment of the directions given him on the card made out from the measurements taken at the beginning of the year.

Each student is regularly marked and credited in his Gymnasium work, faithfulness and punctuality being the tests. In addition to the exercise in the Gymnasium, every effort is made to encourage interest in out-door sports and participation in them at proper seasons of the year. Regular exercise in the open air is urged upon students as of very great importance.

## Examinations, Standing, Honors

### TERM EXAMINATIONS

Except in laboratory, seminary, and similar work, all classes are examined at the close of each term. A student cannot be

admitted to the term examination in any study unless all his college bills are settled and his work in the study is satisfactory to the officer in charge. If excluded from the examination or if absent without the consent of the Faculty, he is considered delinquent in the study. Also, if a student is examined in a given study and fails to receive the "pass" mark, he is considered delinquent in that study, and must prepare himself for a subsequent examination.

Any candidate for a degree who, either from failure at examination or because absent or excluded therefrom, is delinquent in three or more studies at the close of a term, forfeits membership in his class. Special students in such case cannot be registered for a succeeding term.

A student delinquent in any study of the First or the Second Term must, at the time appointed by the Registrar, and before the middle of the term next succeeding that for which he is deficient, be specially examined. Students delinquent at the close of an academic year must be examined on the Monday or Tuesday immediately preceding the beginning of the next academic year (for 1896, on September 14 and 15). The schedule for these delinquent examinations will be posted in the Registrar's office on Monday morning, September 14. Candidates for degrees delinquent in the studies of a given year, unless for worthy cause they are respited by the Faculty, cannot begin the studies of the next year until they have passed successfully the examinations required.

When a student has been absent from a regularly appointed delinquent examination covering a given course, no instructor is authorized to examine him on such course without a written permit from the Registrar, for which a fee of Two Dollars is charged.

A student delinquent in any study who fails to obtain the pass mark on special examination, forfeits his connection with his class and, before he is recommended for a degree, must study the subject again, either with a succeeding class or under an instructor appointed by the Faculty.

A student whose term work is gravely unsatisfactory, likewise one who, being admitted to the examination, betrays extreme ignorance of the subject, is charged with a "double failure." Such a student is not admitted to the delinquent examination, but must pursue the subject again, either with a succeeding class or under an instructor appointed by the Faculty.

## REGISTRATION AND ATTENDANCE

All undergraduate students who desire to attend the University during a given term are required to register at the Registrar's office *on or before the first day of such term.* Every undergraduate student registered or re-registered after the first day of any term is charged for such registration or re-registration a fee of Five Dollars, to be remitted only by the President, and only on presentation of a substantial excuse for the lateness or the change. Any modification of a registration once made is accounted a re-registration. Each student is expected to attend the daily chapel service and also every exercise in the several studies to which he is assigned. The term-reports sent to the parent or guardian of each student contain the record of all absences from required exercises.

## REPORTS OF PROFICIENCY

A careful record is kept of the proficiency of every student of the University in his several studies. Of each undergraduate student the standing is determined at the close of each term. A report is sent to the parent or guardian of every student, indicating his standing in each of his studies for the term, and announcing his deficiency in any study or studies, if such deficiency exists.

## APPOINTMENTS FOR COMMENCEMENT

These are made as follows: Every member of the Senior Class is allowed to present for Commencement an oration or a

thesis. From the number of the papers presented the Professor of Rhetoric, on or before the second Wednesday in April, selects at least one half of both the orations and the theses, and submits them to a committee consisting of the President of the University, the Professor of Rhetoric, and a third member elected each year by the Faculty. This committee select from the orations laid before them such, not exceeding ten in number, as in their judgment have sufficient merit to represent the University with credit at Commencement, regard being had to the oratorical ability of the several writers as determined by their attainments in elocution. The committee select also from the theses such as they deem deserving of particular mention, with reference to the special proficiency shown by the writers in the departments of study which they treat, and to excellence in composition. The number of theses accepted cannot exceed that of the accepted orations. The names of the writers of the theses accepted are printed in the Commencement programme.

### SPECIAL HONORS

Except in case of students registered for honors on or before October 29, 1895, the provisions hitherto in use for attaining special honors, described in the Catalogue for 1894-'95, pages 171, 172, cease and determine on Commencement Day, 1896. Honors attained subsequently to that date by candidates registered before October 29, 1895, will be announced in the Catalogue.

## Graduate Degrees

The degree of **Master of Arts** is granted under the following conditions: The candidate, already a Bachelor of Arts, of Philosophy, of Science, or of Letters, must have completed a thorough course, approved by the Faculty and the Board of Fellows, of liberal, graduate study, sufficient in amount to con-

stitute a fifth year of college work, and have passed satisfactory examinations thereupon. By continuous residence at the University, candidates fulfilling the above conditions may receive the degree in one year from graduation; but in cases of partial or entire non-residence the degree will not be conferred until after two years of graduate study. Candidates for this degree registered as in *in absentia* who yet desire some instruction at the University may receive such. They are required to register at the Registrar's office specially for the course or courses desired, fees being charged accordingly. See below, paragraph 6 under "Expenses."

The degree of **Doctor of Philosophy** is conferred under the following conditions: The candidate must be a Bachelor of Arts, of Philosophy, of Science, or of Letters. He must have resided at the University at least two years after graduation, pursuing a systematic course of study approved by the Faculty and Board of Fellows, and sustaining satisfactory examinations on the same, concluding his course with a thesis giving evidence of high scholarship and of special excellence in the studies pursued. To receive this degree, one must further possess a good knowledge of Latin, French and German, unless for special reasons excused in respect to one or more of these languages.

Any person wishing to become a candidate for either of the above degrees should communicate with the Chairman of the Committee on Graduate Studies [see page 22], naming the departments in which he desires to study. For the degree of Doctor of Philosophy at least two courses are usually required, a Major and a Minor. The communication is laid before the heads of the departments to which the desired courses relate, who, in correspondence with the applicant, arrange the work in detail.

A student desiring to receive at any given Commencement the degree of Master of Arts after one year's residence, must announce his wish to the Chairman of the Committee, in writing, on or before the 15th of October of the year preceding that Commencement, and must name in his application the depart-

ment or departments of study in which he desires to be examined.

Every student, also, who desires to receive at any given Commencement the degree of Master of Arts after two or more years of non-resident study, must make similar announcement on or before the 15th of October of the year preceding that Commencement.

A student desiring to receive at any Commencement the degree of Doctor of Philosophy, must make similiar announcement on or before the 15th of October of the second year preceding that Commencement.

A year of work for the degree of Master of Arts, unless performed in residence, cannot be counted as a year of work for the higher degree; and it is not necessarily so counted even when performed in residence.

The examinations of all candidates desiring to receive the degree of Master of Arts or of Doctor of Philosophy at Commencement in any given year, must be completed before the first of June in that year. The dissertations of candidates for the degree of Doctor of Philosophy must be presented to the Faculty, in type-written copy or in print, before the first of May in that year. The approval of such dissertation by the Faculty is essential to the attainment of the degree.

For the University Dues connected with graduate study, see below, under "Expenses."

## Academic Hoods

Academic Hoods as below described have been adopted for use by graduates of this University.

The pattern is that commonly used in English and American Universities; doctors' hoods being double, all others single. The material used is worsted stuff or silk. The hood for a Doctor of Divinity is brown, lined with white; that for a

Doctor of Laws is entirely of brown, within and without. Except in these two cases the exterior of all hoods is black. All interiors are brown with the single exception of the hood for a Doctor of Divinity, which, as just noted, is white.

Every hood except that of a Doctor of Divinity and that of a Doctor of Laws indicates the grade of the wearer's degree, as follows: Bachelors' hoods, including those of Mechanical and Civil Engineers, are without bindings or edgings. Masters' hoods have white edgings, two inches wide. Hoods for Doctors, other than Doctors of Divinity and Doctors of Laws, have bindings of gold cord.

Any member of the Faculty who holds a degree from some other learned institution may wear the hood proper to the corresponding degree in this University.

## Expenses

Term bills are due, and must be paid or their payment secured, on presentation, at the beginning of each term.

### Regular University Dues

The dues of each student to the University Treasury are as follows:

| | PER TERM | PER ANNUM |
|---|---|---|
| Tuition, . . . . . | $35.00 | $105.00 |
| General incidentals, . . . | 15.00 | 45.00 |

For expenses connected with occupancy of College Rooms, see page 187.

The general incidental expenses are for the printing of programmes, examination papers, and the like, the use of the University Library and Gymnasium, heat for these and also for the halls and recitation rooms, and the wages of servants to care for the same. The charge for incidentals is fixed as nearly as possible at the actual amount of these expenses on an average of several years.

Every undergraduate candidate for a degree pays, upon admission to the University, a matriculation fee of $5.00.

Every member of the Senior Class pays upon graduation a fee of $8.00 for his diploma and other extra expenses connected with graduation.

## Special University Dues

### 1, *In Chemistry*

Candidates for a University degree who take Course 1, 2, or 3 in Chemistry are charged as follows: for Course 1, $1.00; Course 2, $2.00; Course 3, $3.00. They also have a special charge for their actual individual breakage of chemical apparatus. This charge does not ordinarily exceed $2.00 per term.

Special students who take no University studies except Courses 1, 2, 3, in Chemistry, pay for these $10.00 per term. In addition, they are charged for their actual individual breakage of chemical apparatus. This charge does not ordinarily exceed $2.00 per term.

Students who are candidates for University degrees and take advanced courses in Analytical Chemistry, are charged per term, in addition to the Regular University Dues, the sum of $10.00 for a three-hour course in the Laboratory, and $20.00 for a six-hour course in the Laboratory. In addition, they are charged for their actual individual breakage of chemical apparatus. This charge does not ordinarily exceed $3.00 per term.

Special students who take no University studies except advanced courses in Analytical Chemistry are charged varying sums according to the nature of the courses taken. In an individual case the charge is at the rate of $4.00 per term for one hour per week of prescribed attendance in the Laboratory. In addition, they are charged for their actual individual breakage of chemical apparatus. This charge does not ordinarily exceed $5.00 per term.

Special students engaging places in the Laboratory must each pay for a full term. No deductions are made on account of absence.

### 2, *In Physics or Engineering*

Candidates for a degree who study in the Physical Laboratory pay, in addition to the Regular University Dues, a fee of $5.00 per term.

Candidates for a degree who do shop work, pay in addition to the regular University dues, a fee of $10.00 per term.

Special students who take no studies except in the Workshop pay at the rate of $4.00 a term for each hour per week of prescribed attendance in the shop.

### 3, *In Botany*

Students who take Courses 1, 2, 3 or 7, 8 in Botany pay, in addition to the Regular University Dues, a fee of $1.00 per term, to cover the cost of illustrative material.

For the same purpose students taking Courses 4, 5, 6 pay, in addition to the Regular Dues, a fee of $2.00 per term.

### 4, *In Comparative Anatomy*

The laboratory charge for a course varies from $2.00 to $5.00. In certain courses this fee is remitted in consideration of assistance rendered in and about the laboratory.

### 5, *In Other Studies*

Special students in the University, except as just specified under Chemistry, Physics, Botany, and Comparative Anatomy, pay, as a rule, full tuition and incidentals, but the charge is proportionally less when students are admitted to courses of less than fifteen hours of class attendance a week. Special students occupying rooms of course pay the same rent and special incidentals as candidates for degrees.

### 6, *For Undergraduate Women's Examinations*

For each full set of examinations, viz., entrance examinations or examinations on any full term of undergraduate work, each woman candidate pays $10.00. For examinations upon work requiring less than fifteen hours of class-room attendance a week, the fee is 75 cents per weekly hour's work.

Thus, the examination upon a course which requires three hours in class-room weekly costs $2.25; one upon a course of six hours, $4.50, etc.

### 7, *For Graduate Students**

A. A candidate for the degree of Doctor of Philosophy pays the University as follows:

On registration and at the beginning of each Term thereafter for two years, $50.00.

After such a candidate has paid $300.00 in tuition he may, if it is necessary to the attainment of his degree, attend the University two more years without additional charge for tuition.

Examination fee, which must be paid before the final examination, $25.00.

For laboratory expenses, if any, in addition to these sums, see E, below.

B. A candidate for the degree of Master of Arts in residence pays as follows:

On registration and at the beginning of each Term thereafter for one year, $50.00.

Such a candidate who, without remitting his studies, becomes a candidate for the Degree of Doctor of Philosophy, in case his work for the Mastership is permitted to count toward the higher degree (see page 178) is credited with whatever tuition, $50.00, $100.00, or $150.00, as the case may be, he has already paid. No such credit, however, is allowed for an A. M. examination fee.

After a candidate for the degree of Master of Arts in residence has paid $150.00 in tuition he may, if it is necessary to the attainment of his degree, attend the University another year without additional charge for tuition.

Examination fee, which must be paid before the final examination, $15.00.

C. A candidate for the degree of Master of Arts *in absentia* pays as follows:

Registration fee $25.00.

*With the exception of D, this schedule holds only for candidates registered after January 1, 1894. Those registered before that date pay, except as provided under D, according to the schedule printed in the Catalogue for 1892-93, pages 157, 158.

On registration and at the beginning of each Term thereafter for two years, $10.00.

After such a candidate has paid $60.00 in tuition he may, if it is necessary to the attainment of his degree, continue his candidacy and studies two more years without additional charge for tuition.

Examination fee, which must be paid before the final examination, $15.00.

D. A candidate for the degree of Master of Arts *in absentia* who nevertheless wishes some instruction at the University, is required to register at the Registrar's office for the course or courses desired, and is charged therefor at the following rates:

For each course in any department of the University counting one hour a week, $5.00 per term.

For each such course counting two or three hours a week, $10.00 per term.

The $10.00 term fee under C avails, so far as it goes, to offset these charges, cancelling them, that is, unless they exceed $10.00.

For laboratory expenses, if any, in addition to the above, see E, below.

E. A candidate receiving part or all of his instruction in a laboratory or laboratories pays, in addition to the charges noted under A, B, or D, as the case may be, the following sums:

For each course in any laboratory other than the Chemical Laboratory counting three hours a week, $5.00 per term.

For each such course counting six hours a week, $10.00 per term.

For each course in the Chemical Laboratory counting three hours a week, $10.00 per term.

For each such course counting six hours a week, $20.00 per term.

In addition to these laboratory charges, each candidate pays at cost for his individual breakage.

It is, however, provided that no candidate who pays in any term the regular charge of $50.00 under A or B, or of $10.00 under C, shall be required to pay in laboratory charges that term, aside from breakage, more than $35.00

F. A graduate student not a candidate for a degree is charged according to the rates specified under D and E, above.

### General Expenses

The total expenses of students per year vary, of course, according to their habits, tastes, and means, some students expending more than double, even more than treble the amounts of others.

Subjoined are figures denoting the actual yearly expenses, including dues to the University, of several recent students, selected at random. In the case of one of these $250 paid for everything but board; in that of another $185 did the same. Two gentlemen kept their total expenditure, including board and all else save clothing, down to the low sum of $265 apiece. Two others needed for this $425 each, one year; $435 and $450 the next. Another required $412. 87, another $475. Still another spent $510 in his Freshman year, $466 in his Sophomore year, both sums, however, including unusual amounts for traveling. So far as ascertained, the largest outlay for college expenses in recent years is reported by a member of the Class of 1890, whose Freshman year cost him $890, his Sophomore year $730, his Junior year $725.

The usual cost of board is at present from $3.00 to $5.00 per week. A majority of the students do not pay over $3.50, and good board can be obtained for $3.00. Board with furnished rooms, in private families, may be had at from $5.00 to $10.00 per week.

Board is not furnished at the University; but a list, kept by the Steward, of eligible families in the city where board can be obtained, is always accessible to students.

The Brown University Coöperative Refectory, an organization constituted and controlled by the students of the University, furnishes its shareholders with truly excellent board exactly at cost, viz., at present, at $3.60 per week. The shares number 120 and their par value is $10 each. The Refectory is able to accomodate a few students who own no

stock, such paying for board $4.00 per week. A number of shares in the Refectory are for sale at the end of each collegiate year, usually at prices not much above their par value.

Students needing to increase their incomes through their own exertions find in the city numerous opportunities for doing so, by giving private instruction, teaching in evening schools, and other occupations not necessarily inconsistent with their college duties.

## Dormitory Accommodations

Hope College, University Hall, Slater Hall, and the new Maxcy Hall contain together one hundred and twenty single rooms and twenty suites. In addition to these there are on or contiguous to the University grounds, the Messer House, the Howell House, the Pease House, and the Brown Street House. These houses are controlled by the University, and each is used either wholly or mainly for dormitory purposes. They contain forty-eight single rooms and three suites. The University thus presents in all for use as students' residences one hundred and eighty single rooms and twenty-three suites. All these rooms and suites are heated and cared for by competent servants.

Heat and service are charged for *in addition to the rents listed* in the tables on the following pages. The lowest charge for heat (single room) is $10.00 per annum; the highest (suite) is $30.00 per annum. The charge for service is from $15.00 to $21.00 per annum for each single room, and from $24.00 to $30.00 for each suite, according to the size and number of its rooms.

The rooms (or suites) in Hope College, University Hall, and Slater Hall, also those in the Howell, the Messer and the Brown Street House, are rented entirely unfurnished. Those in Maxcy Hall contain ample and elegant furniture, occupants

having to provide nothing except bed-linen and towels. The rooms in the Pease House are supplied with bed-linen as well as with all necessary furniture.

In Hope College and in University, Slater and Maxcy Halls, each room has its own gas meter, and its occupants are charged for the actual amount of gas which they consume. This is of course in addition to what they pay for rent, heat and service. In Howell, Messer, Pease and Brown St. Houses, on the contrary, the figures for rent set forth in the following tables include, in each case, the cost of gas light, so that no separate charge for this is made.

When two students occupy a room or a suite together, each of the charges named above, for rent, heat, service and light, is, of course, reduced by one-half.

When, without necessity for so doing, three tenants regularly occupy a room or a suite intended for two, fifty per cent. is added to the rent and other charges for the room or suite.

It will be observed, further, that the cost above given for each item is the *annual* cost. Since bills are rendered each term, or thrice a year, if they are promptly met, only one third of any of the sums referred to above or named in the tables below has to be paid at any one time.

**The following conspectus shows the rent and location of each dormitory room controlled by the University**

HOPE COLLEGE.

| | Division | Floor | Windows Face | Bedrooms | Rent |
|---|---|---|---|---|---|
| 1 | South | 1 | E. & S. | There are no separate bedrooms, but Nos. 1 and 2, 5 and 6, 9 and 10, 35 and 36, 39 and 40, 43 and 44, can be used either as suites or as single rooms. | $81 |
| 2 | " | " | W. & S. | | 87 |
| 3 | " | " | W. | | 81 |
| 4 | " | " | E. | | 78 |
| 5 | " | 2 | E. & S. | | 81 |
| 6 | " | " | W. & S. | | 87 |
| 7 | " | " | W. | | 81 |
| 8 | " | " | E. | | 78 |
| 9 | " | 3 | E. & S. | | 72 |
| 10 | " | " | W. & S. | | 78 |
| 11 | " | " | W. | | 72 |
| 12 | " | " | E. | | 66 |
| 13 | " | 4 | E. & S. | | 66 |
| 14 | " | " | W. & S. | | 72 |
| 15 | " | " | W. | | 66 |
| 16 | " | " | E. | | 63 |
| 17 | Middle | 1 | E. | | 78 |
| 18 | " | " | W. | | 81 |
| 19 | " | " | W. | | 81 |
| 20 | " | " | E. | | 78 |
| 21 | " | 2 | E. | | 78 |
| 22 | " | " | W. | | 81 |
| 23 | " | " | W. | | 81 |
| 24 | " | " | E. | | 78 |
| 25 | " | 3 | E. | | 66 |
| 26 | " | " | W. | | 72 |
| 27 | " | " | W. | | 72 |
| 28 | " | " | E. | | 66 |
| 29 | " | 4 | E. | | 63 |
| 30 | " | " | W. | | 66 |
| 31 | " | " | W. | | 66 |
| 32 | " | " | E. | | 63 |
| 33 | North | 1 | E. | | 78 |
| 34 | " | " | W. | | 81 |
| 35 | " | " | W. | | 93 |
| 36 | " | " | E. | | 93 |
| 37 | " | 2 | E. | | 78 |
| 38 | " | " | W. | | 81 |
| 39 | " | " | E. & N. | | 93 |
| 40 | " | " | E. & N. | | 93 |
| 41 | " | 3 | W. | | 66 |
| 42 | " | " | W. | | 72 |
| 43 | " | " | W. & N. | | 81 |
| 44 | " | " | E. & N. | | 81 |
| 45 | " | 4 | E. | | 63 |
| 46 | " | " | W. | | 66 |
| 47 | " | " | W. & N. | | 72 |
| 48 | " | " | E. & N. | | 72 |

UNIVERSITY HALL.

| No. | Division | Floor | Windows Face | Bedrooms | Rent |
|---|---|---|---|---|---|
| 10 | South | 2 | S. & W. | 2 | $ 190 |
| 12 | " | " | W. | None | 75 |
| 13 | " | " | W. | " | 75 |
| 16 | " | " | E. | " | 60 |
| 17 | " | " | E. | " | 66 |
| 18 | " | " | E. & S. | " | 93 |
| 19 | " | 3 | S. & W. | 2 single | 180 |
| 21 | " | " | W. | None | 72 |
| 22 | " | " | W. | " | 72 |
| 25 | " | " | E. | " | 60 |
| 26 | " | " | E. | " | 60 |
| 27 | " | " | E. & S. | " | 81 |
| 28 | " | 4 | S. & W. | 2 | 160 |
| 30 | " | " | W. | None | 60 |
| 31 | " | " | W. | " | 60 |
| 32 | " | " | E. | " | 57 |
| 33 | " | " | E. | " | 57 |
| 34 | " | " | E. & S. | " | 81 |
| 36 | North | 1 | W. | " | 75 |
| 40 | " | 2 | W. | " | 75 |
| 41 | " | " | W. | " | 75 |
| 43 | " | " | W. & N. | 2 | 190 |
| 44 | " | " | E. & N. | None | 81 |
| 45 | " | " | E. | " | 66 |
| 46 | " | " | E. | " | 60 |
| 47 | " | 3 | W. | " | 66 |
| 48 | " | " | W. | " | 66 |
| 50 | " | " | W. & N. | 2 | 180 |
| 51 | " | " | E. & N. | None | 75 |
| 52 | " | " | E. | " | 60 |
| 53 | " | " | E. | " | 60 |
| 54 | " | 4 | W. | " | 60 |
| 55 | " | " | W. | " | 60 |
| 57 | " | " | W. & N. | 2 | 156 |
| 58 | " | " | E. & N. | None | 75 |
| 59 | " | " | E. | " | 57 |
| 60 | " | " | E. | " | 57 |

BROWN STREET HOUSE.

| | | | | | |
|---|---|---|---|---|---|
| 4 | | 2 | S. W. | One | 175 |
| 5 | | " | E. S. | None | 75 |
| 6 | | " | W. N. | " | 65 |
| 10 | | 3 | E. S. | " | 55 |
| 11 | | " | S. W. | " | 65 |
| 12 | | " | W. N. | " | 55 |
| 13 | | " | W. N. | " | 55 |

## Maxcy Hall.

| No. | Floor | Windows Face | Rent |
|---|---|---|---|
| 201 | 2 | E. | $105 |
| 202 | " | " | 105 |
| 203 | " | E. & S. | 105 |
| 204 | " | W. & S. | 100 |
| 205 | " | W. | 100 |
| 206 | " | " | 100 |
| 207 | " | " | 100 |
| 208 | " | " | 100 |
| 209 | " | W. & N. | 100 |
| 210 | " | E. & N. | 105 |
| 211 | " | E. | 105 |
| 212 | " | " | 105 |
| 313 | 3 | " | 105 |
| 314 | " | " | 105 |
| 315 | " | E. & S. | 105 |
| 316 | " | W. & S. | 100 |
| 317 | " | W. | 100 |
| 318 | " | " | 100 |
| 319 | " | " | 100 |
| 320 | " | " | 100 |
| 321 | " | W. & N. | 100 |
| 322 | " | E. & N. | 105 |
| 323 | " | E. | 105 |
| 324 | " | " | 105 |
| 425 | 4 | " | 105 |
| 426 | " | " | 105 |
| 427 | " | E. & S. | 105 |
| 428 | " | W. & S. | 100 |
| 429 | " | W. | 100 |
| 430 | " | " | 100 |
| 431 | " | " | 100 |
| 432 | " | " | 100 |
| 433 | " | W. & N. | 100 |
| 434 | " | E. & N. | 105 |
| 435 | " | E. | 105 |
| 436 | " | " | 105 |

## Slater Hall.

| No. | Division | Floor | Windows Face | Bedrooms | Rent |
|---|---|---|---|---|---|
| 1 | South | 1 | E. S. & W. | 2 | $200 |
| 2 | " | " | E. & W. | 1 | 150 |
| 3 | " | 2 | E. S. & W. | 2 | 200 |
| 4 | " | " | E. & W. | 2 | 185 |
| 5 | " | 3 | E. S. & W. | 2 | 190 |
| 6 | " | " | E. & W. | 2 | 185 |
| 7 | " | 4 | E. S. & W. | 1 | 125 |
| 8 | " | " | W. | None | 87 |
| 9 | " | " | W. | " | 57 |
| 10 | North | 1 | E. W. | 2 | 185 |
| 11 | " | " | E. W. & N. | 2 | 185 |
| 12 | " | 2 | E. W. | 2 | 185 |
| 13 | " | " | W. | None | 51 |
| 14 | " | " | W. N. E. | 2 | 200 |
| 15 | " | 3 | W. E. | 2 | 180 |
| 16 | " | " | W. | None | 40 |
| 17 | " | " | W. N. E. | 2 | 190 |
| 18 | " | 4 | E. | None | 51 |
| 19 | " | " | W. | " | 87 |
| 20 | " | " | W. N. E. | 1 | 110 |

## Messer House.

| | | | | |
|---|---|---|---|---|
| 1 | 1 | E. S. | None | 60 |
| 2 | " | S. W. | " | 60 |
| 3 | " | W. | " | 50 |
| 4 | " | E. | " | 60 |
| 5 | " | W. | " | 25 |
| 6 | TRUNK ROOM. | | | |
| 7 | 2 | E. S. | None | 65 |
| 8 | " | S. W. | " | 65 |
| 9 | " | E. | " | 45 |
| 10 | " | W. | " | 65 |
| 11 | " | E. | " | 45 |
| 12 | " | W. N. | " | 50 |
| 13 | 3 | W. | " | 15 |
| 14 | " | W. | " | 15 |
| 15 | " | E. | " | 25 |
| 16 | " | N. | " | 20 |

## Howell House.

| | | | | |
|---|---|---|---|---|
| 1 | 1 | S. & E. | None | 100 |
| 2 | " | S. | " | 70 |
| 3 | " | E. & W. | " | 30 |
| 4 | " | N. | " | 56 |
| 5 | " | S. & E. | 1 | 80 |
| 6 | " | S. | None | 70 |
| 7 | " | N. | 1 | 75 |
| 8 | " | E. & S. | None | 45 |
| 9 | " | S. & E. | " | 15 |

PEASE HOUSE.

| No. | Division | Floor | Windows Face | Remarks | Rent |
|---|---|---|---|---|---|
| 1 | No. 27 | 1 | N. & W. | The rooms in this building are furnished, and the prices given include gas and washing of linen. | $125 |
| 2 | West | " | W. | | 100 |
| 3 | " | " | W. | | 50 |
| 4 | " | 2 | N. & W. | | 125 |
| 5 | " | " | S. & W. | | 125 |
| 6 | " | " | W. | | 25 |
| 7 | " | " | S. & W. | | 75 |
| 8 | " | 3 | N. & W. | | 100 |
| 9 | " | " | S. & W. | | 105 |
| 10 | " | " | W. | | 50 |
| 11 | " | " | S. &. W. | | 75 |
| 12 | No. 29 | 1 | N. & E. | | 125 |
| 13 | East | " | S. & E. | | 100 |
| 14 | " | " | E. | | 50 |
| 15 | " | 2 | N. & E. | | 125 |
| 16 | " | " | S. & E. | | 125 |
| 17 | " | " | E. | | |
| 18 | " | " | S. &. E. | | 75 |
| 19 | " | 3 | E. | | 75 |
| 20 | " | " | N. & E. | | 110 |
| 21 | " | " | S. &. E. | | 105 |
| 22 | " | " | E. | | 40 |
| 23 | " | " | S. | | 40 |

## Directory to the Dormitories

Slater Hall, South Division, Rooms, 1 to 9.

Slater Hall, North Division, Rooms, 10 to 20.

University Hall, South Division, Rooms, 1 to 34.

University Hall, North Division, Rooms, 35 to 61.

Hope College, South Division, Rooms, 1 to 16.

Hope College, Middle Division, Rooms, 17 to 32.

Hope College, North Division, Rooms, 33 to 48.

Maxcy Hall, Rooms 201 to 436.

Messer House, Rooms 1 to 16.

Brown Street House Rooms 4 to 13.

Pease House, Rooms 1 to 23.

Howell House, Rooms 1 to 9.

The Howell, Pease, Brown Street and Messer Houses were private residences. In them the rent for each room includes gas for the same.

## Room Contracts

All rooms not rented on May 30 of any year are offered for rent on that day and rented to the first applicant. Each student renting a room must sign a contract therefor in the form given below, on which surety may be demanded, binding him to pay or see paid the rent of the room through the entire year. This obligation is not impaired by the student's removal from the University, whatever the cause of such removal.

The following is a contract between Brown University, party of the first part, and the undersigned, jointly and severally, parties of the second part. We hereby engage, and each of us hereby engages, room No. in ; and we bind ourselves, and each of us binds himself in case of the other's failure, to pay or cause to be paid to the Registrar of Brown University the entire rent, including heat and service, amounting to $ for the college year beginning September, 189 . It is a part of this agreement that each occupant of a room will be held responsible for all damage or defacement of such room, or its furniture, ordinary wear excepted.

Signed by Mr. and Mr. This day of 189 : We (I) bind (myself) ourselves to the performance of the foregoing agreement, and guarantee the payment of any sums coming due thereunder.

## Fellowships

### The Fellowship of the Grand Army of the Republic

In 1891 the Grand Army of the Republic, Department of Rhode Island, donated to Brown University the sum of ten thousand dollars, to be forever known as the Grand Army of the Republic Fellowship Fund. Only the income of the fund

can be used. This income goes to aid alumni of Brown University, of acknowledged excellence in scholarship and character, to pursue advanced liberal study; the aim being that the income for any year shall all go to the same person, except in case of his death, or his resignation or forfeiture of this Fellowship, when a successor may be appointed for the remainder of the year.

Holders of this Fellowship are appointed by the President of the University, subject to the approval of the Board of Fellows, but the descendants of Union Veterans of the Civil War of 1861-65 are always to be preferred when the other qualifications of candidates are equal. No considerations touching the political or religious preferences of candidates can ever enter into these appointments.

Appointments to this Fellowship are regularly made for one year, but incumbents of special diligence or ability may be reappointed. The President is authorized to make for the reception and use of the income from this fund such other conditions, not inconsistent with the above, as he may from time to time deem wise and proper.

Applications for the Fellowship must be in the hands of the President on or before May 15th each year.

### The Philadelphia Alumni Fellowship

This is another fund, to be ten thousand dollars, which the Philadelphia Alumni Association of Brown University will soon render available. Its general purpose is to assist graduate students of special ability in pursuing advanced studies at the University.

## Scholarships

The University has about one hundred scholarships. Seventy-three of them are of one thousand dollars each. The income of these is given, under the direction of a committee

appointed by the Corporation, to meritorious students who may need pecuniary assistance; *but a scholarship is forfeited if the candidate incurs college censure or fails to secure a creditable standing in his studies.* The one thousand dollar scholarships are as follows, each, unless otherwise indicated, bearing the name of its founder.

*The eleven Nicholas Brown Scholarships.*

*The four University Scholarships.*

*The President's (Sears) Scholarship.*

*The six Alva Woods Scholarships.*

*The James H. Duncan Scholarship.*

*The Isaac Davis Scholarship.*

*The Arnold Whipple Scholarship*, founded by Mrs. Arnold Whipple.

*The Ephraim Wheaton Scholarship*, founded by James Wheaton.

*The Joseph Brown Scholarship*, founded by Mrs. E. B. Rogers.

*The Gardner Colby Scholarship.*

*The Crocker Scholarship*, founded by Robert H. and Thomas P. Ives, trustees.

*The George K. and H. A. Pevear Scholarship.*

*The Joseph C. Hartshorn Scholarship I.*

*The Rogers High School Scholarship*, founded by William Sanford Rogers.

*The James Wheaton Scholarship.*

*The Charles Thurber Scholarship.*

*The Pardon Miller Scholarship*, founded by Mrs. Ann E. Miller.

*The Hezekiah S. Chase Scholarship.*

*The William Bucknell Scholarship.*

*The Clark Scholarship*, also founded by the Messrs. Ives.

*The Albert Day Scholarship.*

*The Henry P. Kent Scholarship.*

*The Romeo Elton Scholarship.*

*The Five Annie E. Waters Scholarships.*

*The L. Fairbrother Scholarship*, founded by Mrs. L. Fairbrother.

*The George Lawton Scholarship.*

*The John P. Crozer Scholarship*, founded by Mrs. Margaret Bucknell.

*The James Y. Smith Scholarship.*

*The two S. S. Bradford Scholarships.*

*The Frances R. Arnold Scholarship.*

*The Cornelia E. Green Scholarship.*

*The Henry Clifford Knight Scholarship*, founded by Miss Amelia S. Knight, in memory of her brother, a member of the Class of 1875.

*The Thurston Scholarship*, founded by Hon. Benjamin F. Thurston.

*The Rufus Babcock Scholarship*, founded by Mrs. Caroline Vassar Babcock Jones, in memory of her father, Rev. Rufus Babcock, D. D., of the Class of 1821.

*The James Fletcher Blackinton Scholarship*, founded by Mrs.

*The Austin Merrick Scholarship*, founded by Mrs. Olive E. Merrick.

*The Horatio N. Slater Scholarship.*

*The Earl P. Mason Scholarship.*

*The Newport Scholarship*, founded by William Sanford Rogers.

*The Alexis Caswell Scholarship.*

*The three (Henry) Jackson Scholarships.*

*The Mumford Scholarship*, founded by Mrs. Louisa D. Mumford.

Mary D. Blackinton, in honor of her husband, James Fletcher Blackinton, of the Class of 1847.

*The five William A. White Scholarships*, founded by Mrs. Abby S. A. White, in honor of her husband, William A. White, of the Class of 1857.

*The Richards Scholarship*, founded by the Rev. William Coolidge Richards, of the Class of 1837.

Besides the above scholarships there are others the assignment of which is made subject to special provisions. These are as follows:

*The Bartlett Scholarship*, of four thousand dollars, founded by MRS. ELIZABETH SLATER BARTLETT, the income to be "devoted to the support of one or more students needing pecuniary aid, and giving promise, by studious aims and by character and scholarship, of rising to distinction and usefulness."

*The Glover Scholarships*, of five thousand dollars, founded by HENRY R. GLOVER, "in memory of his father, SAMUEL GLOVER, a graduate of the College of the Class of 1808, and of his brother, SAMUEL GLOVER, JR., of the Class of 1839." Assignment is made upon the basis of character and attainments.

*The Rebecca A. Wheeler Scholarship*, of fifteen hundred and seventy-one dollars, founded by the lady whose name it bears, the income to assist some worthy student, preferably a candidate for the Baptist ministry.

*The Scholarship of the Class of* 1838, of thirty-eight hundred dollars, founded by members of THE CLASS OF 1838, and assigned upon the basis of character and scholarship.

*The Joseph Charles Hartshorn Scholarship II*, of two thousand dollars, founded by the gentleman whose name it bears.

*The George J. Sherman Scholarships I and II*, of one thousand dollars each, founded by the gentleman whose name they bear.

*The George Ide Chace Scholarship*, of five thousand dollars, founded by Professor George Ide Chace, the income to be assigned each year by the Faculty to some member of the Senior Class needing the same, who shows "marked ability, exemplary industry, generous aspirations, and irreproachable character."

*The Abby Wheaton Chace Scholarship*, of four thousand dollars, also founded by Professor George Ide Chace, the income to be assigned yearly by the Faculty to some member of the Junior Class needing the same. Here, too, the recipient must be characterized by "marked ability, exemplary industry, generous aspirations, and irreproachable character."

If in either the Senior or the Junior Class there chance to be no person answering the above descriptions, the proceeds of the scholarship for that year must, under the proper direction, be appropriated to the purchase of books for the Library of the University.

For the year 1895-96 the George Ide Chace Scholarship was awarded to

CHESTER STANLEY CHURCHILL

and the Abby Wheaton Chace Scholarship to

JOHN HARRINGTON COX.

## LOAN FUND

This is a small fund the income of which is applied, in the way of small loans for short terms, to the assistance of deserving young men of limited means.

## THE CHARLES SMITH BRADLEY FREE BED IN THE RHODE ISLAND HOSPITAL

This was established in 1872 by a payment to the Hospital of Four Thousand Dollars by the late Judge Bradley, a member of the Board of Fellows. This endows a Free Bed "under

the control of the President of Brown University, for the time being, for the benefit of any officer or student of that Institution who may have occasion for it."

THE GEORGE IDE CHACE FREE BED IN THE RHODE ISLAND HOSPITAL

This was established and is to be permanently maintained by a payment to the Hospital of Four Thousand Dollars by the late Professor George Ide Chace. This foundation gives to the President of the University "the right to nominate and send to said Hospital a patient, being a proper subject for treatment in said Hospital, according to the rules of the institution, to occupy a bed in said Hospital, and to receive the usual care, and medical, surgical, and other attendance, and medicines and board, free of charge."

## Premiums

### I. FOR EXCELLENCE IN PREPARATORY STUDIES

**The President's Premiums.** These are derived from the income of a fund presented to the University by the REV. FRANCIS WAYLAND, D. D., while President. They are awarded each year to those members of the Freshman Class who are found upon special examination to have attained the highest excellence in the studies required for admission to College in Greek, Latin and French. For the highest attainment in each of these several studies a first premium of twenty dollars is awarded; for the next highest a second premium of ten dollars.

The examinations for these premiums deal with the general principles and laws of the languages involved rather than with irregularities and exceptions. Great importance is attached to the pupil's familiarity with the subject-matter of the works

read and to his ability to translate with accuracy and facility into clear, appropriate and idiomatic English.

The examination in Greek occurs on the second Saturday of the First Term, each year, that in Latin on the third Wednesday, and that in French on the fourth Wednesday.

The most recent award (1895) of these premiums was as follows:

GREEK

*The First Premium* to WALTER BOARDMAN BULLEN, instructed by Warren Davis, A. B., in the Newton, Mass., High School.

*The Second Premium* to GEORGE ALBERT GOULDING, instructed by William T. Peck, D. Sc., in the Providence High School

LATIN

*The First Premium* to GEORGE ALBERT GOULDING, instructed by William T. Peck, D. Sc., in the Providence High School.

*The Second Premium* to WALTER BOARDMAN BULLEN, instructed by Miss Josephine Davis, A. B., in the Newton, Mass., High School.

FRENCH

*The First Premium* to CLARENCE SAUNDERS BRIGHAM, instructed by Howard M. Rice, A. M., in the English and Classical School, Providence.

*The Second Premium* to EDWARD EVERETT THOMPSON, instructed by Miss Emily Winward, in the Durfee High School, Fall River, Mass.

## MATHEMATICS

**The Hartshorn Premiums.** These are derived from the income of a fund of one thousand dollars, presented to the University by JOSEPH C. HARTSHORN, A. M., of the Class of 1841. The income furnishes three Premiums.

These are awarded to those members of the Freshman Class who are found, upon examination, to excel in the preparatory mathematical studies.

The examination occurs on the third Saturday of each first Term.

The last award (1895) of these premiums was as follows:

*The First Premium* to BERNARD CAPEN EWER, prepared in the Taunton, Mass., High School.

*The Second Premium* to NATHANIEL HOWLAND GIFFORD, prepared in the English and Classical School, Providence.

*The Third Premium* to RALPH EDWARD BARKER, prepared in Worcester Academy.

## II. FOR EXCELLENCE IN COLLEGE STUDIES

**The Carpenter Prizes for Elocution.** These are: a First Prize of sixty dollars; a Second Prize of thirty-six dollars; a Third Prize of twenty-four dollars.

They are derived from the income of a fund established by THOMAS CARPENTER and are awarded annually to the three members of the Sophomore Class to whom are assigned, respectively, the first, the second, and the third rank of excellence in elocution. The assignment is made by a committee appointed for the purpose, and after trial at a public exhibition given on the Monday evening before Commencement.

The competitors must be members of the Sophomore Class. They may declaim pieces in either prose or verse, selected from English authors. These selections must be approved by the Instructor in Elocution. Competitors are to enter their names with this Instructor not later than the first day of May.

The Committee of Award consists of five members, and is formed as follows: the Professor or the Instructor in Elocution, who is the chairman; two persons elected by the Corporation; also two elected by the Sophomore Class during the first term of the year; it being understood that no one who is or has been a member of the class is eligible.

The Committee for 1895 awarded the prizes as follows:

*The First*, to WILBUR ALLEN SCOTT,
*The Second*, to EVERETT COLBY,
*The Third*, to BENJAMIN THOMPSON LIVINGSTON.

**The Hicks Prizes for Excellence in Debate.** These are two, derived from the income of a fund presented to the University by the HON. RATCLIFFE HICKS, of the Class of 1864. They are annually awarded to the two members of the Junior Class who, in the judgment of a carefully selected com-

mittee, display the greatest ability in debate. The contest is held on the evening before Class Day.

For the year 1895 the prizes were awarded in equal parts to

GARDNER KIRK HUDSON

and

JOSEPH RICHARD BULLOCK JR.

**The Dunn Premium.** A fund amounting to somewhat over eight hundred dollars was presented to the University by pupils and friends of the late PROFESSOR ROBINSON POTTER DUNN, D. D., the income to be given, at the *end of the Junior year*, to the student having the highest standing in rhetorical studies, " rhetorical studies " meaning here those in charge of the Department of Rhetoric and Oratory. The nomination for this Premium is made by the gentleman instructing in this Department, and has regard to the number of studies which competitors have taken as well as to the rank which they have attained therein.

For the year 1894-95 this premium was awarded to

CLARENCE MASON GALLUP.

**The Carpenter Premiums.** These are two, of sixty dollars each, derived from the income of a fund established by THOMAS CARPENTER and LYDIA CARPENTER.

These premiums are assigned at the *end of the Senior year*, to the two members of the Senior Class who, " already on scholarships, shall, in the judgment of the Faculty, unite in the highest degree the three most important elements of success in life : ability, character, and attainment."

For the year 1894-95 the Carpenter Premiums were awarded to

FRED DAVIS ALDRICH

and

RICHARD MINER VAUGHAN.

**The Howell Premium.** This fund, amounting to one thousand dollars, was presented to the University by the late GAMALIEL LYMAN DWIGHT. The income is given at the close

of the second term of the Senior year, to the student who, "having a good record of deportment, has the highest rank in Mathematics and Natural Philosophy." To be considered a candidate for this Premium, a student must, each term from the Freshman year to the end of the second term in Senior year, select at least one of the elective studies offered in Pure or Applied Mathematics.

For the year ending 1894-95 this premium was awarded to

Frederick Slocum.

**The Class of 1873 Prize.** A fund amounting to five hundred dollars was presented to the University by The Class of 1873, on the condition that its income should be used as a prize for an Essay. The prize is annually offered for competition to members of the Senior Class, the subject being of an historical nature one year, of a philosophical nature the next. In 1895 it was philosophical.

On Commencement Day, June 19, 1895, the President announced the award of this prize to

Richard Miner Vaughan.

**The Foster Premium in Greek.** This premium is derived from the income of a fund of three thousand dollars bequeathed to the University by the late Hon. LaFayette Sabine Foster, LL. D., of the Class of 1828.

In accordance with the terms of the donor's will, the income of this fund is to be "annually paid to that scholar of the institution who passes the best examination in the Greek language, the examination to be made in the first, third, and twenty-fourth books of Homer's Iliad or in the Oration on the Crown by Demosthenes."

The next examination, open to the members of the Senior Class, will be held early in May, 1896. Candidates will be examined in the Oration on the Crown.

On Commencement Day, June 19, 1895, the President announced the award of the prize to

John Campbell Swift.

A collateral prize of equal value was at the same time awarded, for an examination of equal merit, to

MAUDE ANNE BONNER.

**The Lucius Lyon Premiums in Latin.** These are derived from the income of a fund of five thousand dollars presented to the University by Mrs. Caroline L. Lyon, in memory of her husband, Lucius Lyon, of the Class of 1844. Five-tenths of the income each year form the first premium, three-tenths the second, and two-tenths the third. Any part of the income not needed in any given year must be added to the fund. The premiums are awarded only as the result of a special examination held during the last term of the Senior year, and only for real merit. The examination may relate to (1) the Latin Language, (2) Roman Literature, (3) Roman History, or partly to one of these subjects and partly to another, or both the others. The President of the University and the Head of the Latin Department prescribe for admission to the examination such conditions as in their judgment will secure the best results.

For the year 1894-95 the prizes were awarded as follows:

*The First*, to FRED DAVIS ALDRICH.

*The Second*, to JOHN CAMPBELL SWIFT.

*A Collateral Second Prize* of equal value, for an examination of equal merit, to MAUDE ANNE BONNER.

*The Third* to LUCIEN EDWARD TAYLOR.

**Senior Essay Medal.** The National Society of the Sons of the American Revolution offers for competition at the annual Commencement, a large, handsome Silver Medal, to be awarded by the Faculty on behalf of the Society, for the best Senior Essay containing not less than 1600 and not more than 2000 words, upon the Principles fought for in the War of the American Revolution. The Medal bears the name of the winner and the name of the University. A copy of the prize essay from each institution where the competition occurs is sent to the President-General of the Society. These essays are referred to a select committee of the Society, which awards

to the writer of the one it deems the most meritorious a large Gold Medal, of the value of One Hundred Dollars.

The Competition at Brown University is in charge of the Department of Rhetoric and Oratory.

**The Gaston Prize Medal for Excellence in Oratory.** In 1894, the widow and children of Hon. William Gaston, a graduate of the University in the Class of 1840, and afterward Governor of Massachusetts, donated to the University the sum of Three Thousand Dollars, from the income of which there is to be annually provided a Gold Medal bearing the name "William Gaston," to be awarded to that member of the Graduating Class "who shall write and at Commencement pronounce in English the best oration."

Any member, in good standing, of the Senior Class may compete for this Medal provided he has been five full terms at the University and has regularly attended and faithfully performed the work in Elocution and Oratory required during the course, showing himself proficient as a speaker and writer.

Each competitor is required to deposit in the Registrar's office, on or before noon of the first Monday in the Spring term, an oration of his own composition, type-written and signed with his name. No oration as completed for delivery may consist of more than one thousand words.

Before it is delivered at Commencement each oration must be rehearsed at least five times before the Professor or Instructor in Oratory, such rehearsals to be completed at least one week before Commencement Day. At the first rehearsal each speaker is required to hand to the Instructor in Rhetoric and Oratory an autograph copy of his oration for preservation in the University Library.

The Committee of Award consists of three persons not members of the Faculty, to be selected as follows: one by the President of the University, one by the Faculty, and one by the contestants. No speaker at Commencement is permitted to make use of a prompter. The members of the committee take into account thought, composition and delivery.

On Commencement Day, June 19, 1895, the Gaston medal was won by

Chester Willard Barrows.

## Special Honors, Class of 1895

### FOR THE FRESHMAN YEAR

| | |
|---|---|
| Fred Davis Aldrich, | Greek, French. |
| Edward Perkins Jastram, | Greek. |
| John Campbell Swift, | Greek, French. |
| Lucien Edward Taylor, | French. |
| Edgar Luther Tinkham, | French. |

### FOR THE SOPHOMORE YEAR

| | |
|---|---|
| Fred Davis Aldrich, | Greek, German. |
| Maude Anne Bonner, | Latin, Greek. |
| Clara Elizabeth Comstock, | German. |
| Nettie Serena Goodale, | German. |
| Sumner Tingley Packard, | German. |
| Maria Storrs Peck, | German, French. |
| Frederick Slocum, | German. |
| John Campbell Swift, | Greek, German. |
| Lucien Edward Taylor, | Rhetoric, French. |

### FOR THE JUNIOR YEAR

| | |
|---|---|
| Isabel Warwick Bliss, | History. |
| Frederick Otis Clapp, | Astronomy. |
| Clara Elizabeth Comstock, | History. |
| Nettie Serena Goodale, | History. |
| Maria Storrs Peck, | History. |
| Algernon Wait Putnam, | French. |
| John Campbell Swift, | German. |
| Lucien Edward Taylor, | French. |
| John Franklin Watts, | History. |
| Harry Clifford Whipple, | History. |
| William Frederick Wilson, | History. |

### FOR THE SENIOR YEAR

| | |
|---|---|
| Fred Davis Aldrich, | Latin. |
| Isabel Warwick Bliss, | English. |
| Clara Elizabeth Comstock, | English. |
| Nettie Serena Goodale, | Philosophy, German. |
| Edward Perkins Jastram, | History. |
| Elizabeth Robina Peckham, | German. |
| Algernon Wait Putnam, | French. |
| Frederick Slocum, | Mathematics. |
| John Campbell Swift, | German. |

# Degrees Conferred in 1895

## DEGREES IN COURSE

### THE DEGREE OF BACHELOR OF ARTS

ON

Fred Davis Aldrich,
Eugene Chester Angell,
John Clinton Anthony,
George Richard Atha,
Chester Willard Barrows,
Wayland Louis Beers,
Fred Bement,
John Elof Boodin,
William Walter Bustard,
Frederick Otis Clapp,
Theron Clark,
Raymond Capron Cook,
Henry Elliott Cooper,
Thomas Patrick Corcoran,
Nathaniel Wheaton Dexter,
Samuel White Duncan Jr.,
Stafford Clarence Edwards,
Franklin Davenport Elmer,
Arthur Llewellyn Eno,
Herve Washington Georgi,
Robert Remington Goff,
George Andrew Gordon,
Alexander Emor Harrington,
Henry Joseph Hoye,
Edward Perkins Jastram,
Elisha Tucker Peirce Jenks,
Hazen Kimball,
Elno Dustin Lancey,
James Lawson,
Arthur Amsden Macurda,
Henry Mahoney,
Philip Talmage McGown,
Fred Winchester Mears,
Lester Meseroll,
William Henry Millington,
Charles Jerome O'Connor,
William Thomas O'Donnell,
George Harwood Olney,
Sumner Tingley Packard,
Fred Arthur Robinson,
Dallas Lore Sharp,
Henry Bennett Slade,
Frederick Slocum
Allan Prescott Stevens
William Cowper Stratton
John Cambell Swift,
Lucien Edward Taylor,
Frederick Everett Thompson,
John Avery Tillinghast,
Amasa Randall Tourtellot Truex,
Richard Miner Vaughan,
John Franklin Watts,
Paul Maurice White,
Hobart Augustus Whitman,
William Frederick Wilson,
Peter Clark Wright,
Walter Cornelius Wyckoff.

Isabel Warwick Bliss,
Maude Anne Bonner,
Martha Reynolds Clarke,
Emogene Miriam Manning,
Grace Church Paull,
Elizabeth Robina Peckham,
Nettie Serena Goodale.

## THE DEGREE OF BACHELOR OF PHILOSOPHY

ON

Herbert Matthews Adams,
Scott Adams,
George Allen Anthony,
George William Bartlett,
George Phippen Beckford,
Oscar Francis Bellows,
James Davis Bennett,
Norman North Bishop,
William Arthur Burt,
Walter Guyton Cady,
Walter Theodore Crosby,
Jay Rogers Dickinson,
Will Edward Gardner,
Howard Marsh Grant,
Fred Ellis Horton,
Arthur Johnson Hull,
Fred Lionel Chester Keating,
William McDonald Jr.,
Algernon Wait Putnam,
Edward Armington Sammis,
Edwin Angell Skinner,
Frank Warren Sleeper,
Roy Walter Sumner,
Edgar Luther Tinkham,
Charles Harold Walling,
Francis Willis Wamsley,
Harry Clifford Whipple,
Benjamin Williams,
Eugene Crawford Williams,
Louis Victor Campbell Winter.

---

Beatrice Jennie Barker,
Clara Elizabeth Comstock,
Bertha Abby Nichols,
Maria Storrs Peck.

## THE DEGREE OF CIVIL ENGINEER

ON

John Weston Butler,
Raymond Capron Cook,
Frank Henry Morris,
George Henry Sweet.

## THE DEGREE OF BACHELOR OF ARTS

in connection with his class

ON

James William Perry

THE DEGREE OF MASTER OF ARTS

after examination

ON

John Lincoln Alger, A. B.
George Frederick Andrews, A. B.
Henry Milton Barry, A. B.
Emma Elizabeth Brown, A. B.
Edmund Cody Burnett, A. B.
Grace Emma Cooley,
Thomas Crosby Jr., B. P.
Adolph Conrad Ely, A. B.
Miller Moore Fogg Jr., A. B.
Lillian Lee Gardner, A. B.
Alexander Meiklejohn, A. B.
Allan Benton Morton, A. B.
William Washburn Moss, A. B.
Henry Kalloch Rowe, A. B.
Myron Wilder Stickney, A. B.
Albert Ellsworth Thomas, A. B.
Carl Vernon Tower, A. B.
Edgar Lincoln Willard, A. B.
Fannie Elizabeth Woods, A. B.
Mary Emma Woolley, A. B.

THE DEGREE OF MASTER OF ARTS

in connection with their classes

ON

John Nicholas Brown, Class of 1885.
Charles Andrew Snow, Class of 1854.

THE DEGREE OF DOCTOR OF PHILOSOPHY

ON

James Quayle Dealey, A. M.
Daniel Goodwin, A. M.
Charles Edward Dennis, A. M.
Albert DeForrest Palmer Jr., B. P.
Walter Goodnow Everett, A. M.

## HONORARY DEGREES

THE DEGREE OF MASTER OF ARTS

ON

Seth Jones Axtell,
Robert Ludlow Fowler,
Lewis George Janes,
Theodore Corson Search.

THE DEGREE OF DOCTOR OF MUSIC

ON

JULES JORDAN.

THE DEGREE OF DOCTOR OF LETTERS

ON

JULIA JOSEPHINE IRVINE,

WILLIAM WINTER.

THE DEGREE OF DOCTOR OF DIVINITY

ON

THOMAS SEYMOUR BARBOUR,

WILLIAM HERBERT PERRY FAUNCE.

THE DEGREE OF DOCTOR OF LAWS

ON

ELI WHITNEY BLAKE.

# STUDENTS

## GRADUATES

### CANDIDATES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

BERTHA BASS, *Newport*. 11 Greene St.
Wesleyan University A. B. 1886; A. M. 1889
History, Political Science

EDMUND CODY BURNETT, *Mossy Creek, Tenn.*, 108 Bowen St.
Brown University A. B. 1890; A. M. 1895
History, Greek, Political Economy

CLARA ELIZABETH COMSTOCK, *Providence*, 842 Broad St.
Brown University B. P. 1895
English, Philosophy, Romance Languages

STEPHEN SHELDON COLVIN, *Riverside*, Germany.
Brown University B. P. 1891; A. M. 1894
Philosophy, English

WILLIAM HOLDEN EDDY, *Providence*. 36 Bradford St.
Brown University A. B. 1891; A. M. 1894
German, Romance Languages

ADOLPH CONRAD ELY, *Plantsville, Ct.*, 12 Congdon St.
Brown University A. B. 1894; A. M. 1895
German, Romance Languages

MILLER MOORE FOGG JR., *Providence*, 29 Angell St.
Brown University A. B. 1894; A. M. 1895
English, Rhetoric

EDWIN COLLINS FROST, *Providence*, 207 Smith St.
Brown University A. B. 1890
English, German, Romance Languages

FREDERIC POOLE GORHAM, *Providence*, 237 Knight St.
Brown University A. B. 1893; A. M. 1894
Geology, Comparative Anatomy

ELIJAH ABRAHAM HANLEY, *Prairie C'k, Ind.*, 12 Congdon St.
Franklin College A. B. 1895
Philosophy, English, Rhetoric

ALBERT WALKER HINDS, *W. Boylston, Ms.*, 98 Bowen St.
Brown University A. B. 1887; Harvard University A. M. 1889
Greek, Latin

HENRY DWIGHT HUNT, *Columbia, Ct.*, Columbia, Ct.
Yale University Ph. B. 1892
German, French, Pedagogy

ALBERT BUSHNELL JOHNSON, *East Providence*, East Providence.
Brown University A. B. 1891; A. M. 1892
Romance Languages, German

ERNEST HENRY JOHNSON, *East Providence*, East Providence.
Brown University A. B. 1891; A. M. 1892
German, Romance Languages

LEWIS HAMILTON MEADER, *Providence*, 21 Andem St.
Dartmouth College A. B. 1878; Brown University A. M. 1894
History, Political Science, German

ALEXANDER MEIKLEJOHN, *Pawtucket*, Pawtucket.
Brown University A. B. 1893; A. M. 1895
Philosophy, Psychology

GOLDSBERRY BOBO MERRITT, *Somersworth, N. H.*, Somersworth.
Antioch College A. B. 1887; A. M. 1892
Semitic Languages, Philosophy of Religion

WILLIAM WASHBURN MOSS, *Providence*, 231 Broadway.
Brown University A. B. 1894; A. M. 1895
Political Science, Political Economy, Mathematics

WINTHROP JOHN VANLEUVEN OSTERHOUT, *Providence*, Germany.
Brown University A. B. 1893; A. M. 1894
Botany, Biology

CHARLES MARSHALL POOR, *Manchester, N. H.*, 12 Congdon St.
Brown University A. B. 1893; Leland Stanford Jr. University A. M. 1894
German, English

OTIS EVERETT RANDALL, *Providence*, 25 Beaufort St.
Brown University A. B. 1884; A. M. 1887
Mechanics, Mathematics

SIDNEY ALGERNON SHERMAN, *Providence*, 249 Doyle Ave.
Amherst College A. B. 1885
Social Science, Political Economy, Political Science

JOHN SMITH SHIPPEE, *East Greenwich*, East Greenwich.
Brown University A. B. 1894
Latin, Greek

MYRON WILDER STICKNEY, *Brownville, Me.*, 62 George St.
Bates College A. B. 1893; Brown University A. M. 1895
Comparative Anatomy, Physiology

AUGUSTUS TABER SWIFT, *New Bedford, Ms.*, 37 Creighton St.
Brown University A. B. 1889; A. M. 1890
German, French

MARTHA TARBELL, *Providence*, 169 Power St.
De Pauw University A. B. 1884; Brown University A. M. 1894
German, English

CARL VERNON TOWER, *Dayton, O.*, 261 Benefit St.
Brown University A. B. 1893; A. M. 1895
Metaphysics, Psychology

RALPH WINFRED TOWER, *Providence*, 397 Pine St.
Brown University A. B. 1892; A. M. 1893
Comparative Anatomy, Physiology

MARY EMMA WOOLLEY, *Pawtucket*, Pawtucket.
Brown University A. B. 1894; A. M. 1895
History

WALTER HARRIS YOUNG, *Warren*, Warren.
Brown University A. B. 1890; A. M. 1892
Philosophy, Greek

HERRICK PLATT YOUNG, *Providence*, 5 Chapin Ave.
Brown University A. B. 1887; A. M. 1890
Latin, Ancient History

## CANDIDATES FOR THE DEGREE OF MASTER OF ARTS

### I. Fully in Residence

BEATRICE JENNIE BARKER, *Providence*, 357 Westminster St.
Brown University B. P. 1895
English, History, French

JOHN BARLOW, *Peru, Ms.*, 28 College St.
Middlebury College B. S. 1895
Comparative Anatomy, Physiology

ISABEL WARWICK BLISS, *Providence*, 235 Waterman St.
Brown University A. B. 1895
Pedagogy, English

JOHN ELOF BOODIN, *Pawtucket*, 15 Church St.
Brown University A. B. 1895
Metaphysics, Psychology

FREDERIC OTIS CLAPP, *Providence*, 11 Bridgham St.
Brown University A. B. 1895
Physics, English

HOWARD DORRANCE DAY, *Providence*, 216 Medway St.
Yale University A. B. 1893
Physics, Mathematics

STAFFORD CLARENCE EDWARDS, *Nanticoke, N. Y.*, 177 Bridgham St.
Brown University A. B. 1895
Pedagogy, Psychology, History of Philosophy

ARTHUR LLEWELLYN ENO, *Charlotte, Vt.*, Bayside, Warwick Neck.
Brown University A. B. 1895
English, Rhetoric

NETTIE SERENA GOODALE, *Pawtucket*, 128 Mineral Spring Ave.
Brown University A. B. 1895
Philosophy, Political Economy

GEORGE ANDREW GORDON, *Worcester, Ms.*, Hope 4.
Brown University A. B. 1895
Pedagogy, Psychology, History of Philosophy

JOHN FRANCIS GREENE, *Seekonk, Ms.*, 51 Angell St.
Brown University A. B. 1891
History, German

MINNIE ARABELLA HALL, *Providence*, 417 Pine St.
Wellesley College A. B. 1880
Pedagogy, English Literature

CLARENCE GRANT HAMILTON, *Providence*, 22 Portland St.
Brown University A. B. 1888
Music

HARRIET MAY HATHAWAY, *Providence*, 12 Marlborough Ave.
Boston University A. B. 1892
English, German, Romance Languages

FREDERIC MELLEN KNIGHTS, *Burlington, Vt.*, Pease House 12.
University of Vermont B. S. 1894
Chemistry, French, Music

LESTER MESEROLL, *Providence*, 29 Angell St.
Brown University A. B. 1895
Biblical Literature, Oriental History

RACHEL LEEDOM MOORE, *Columbiana, O.*, Worcester, Ms.
Cornell University B. S. 1876
German

MARIA STORRS PECK, *Providence*, 106 George St.
Brown University B. P. 1895
History, History of Philosophy

ALGERNON WAIT PUTNAM, *S. Lyndeboro, N. H.*, 94 George St.
Brown University B. P. 1895
Romance Languages, German, Fine Arts

FRANK WARREN SLEEPER, *Fr'nklin F'lls, N. H.*, 62 George St.
Brown University B. P. 1895
Comparative Anatomy, Physiology

FREDERICK SLOCUM, *Providence*, 391 Olney St.
Brown University A. B. 1895
Astronomy, Mathematics

WALTER EDWARD SMITH, *Providence*, 80 Congdon St.
Brown University A. B. 1893
Chemistry, German

ELLEN APPLETON STONE, *Providence*, 280 Waterman St.
Radcliffe College A. B. 1895
Comparative Anatomy, Physiology

LOUIS ALEXANDRE ROUX, *Saxton's River, Vt.*, 3 Angell Place.
Brown University A. B. 1894
Romance Languages, German

ARTHUR EUGENE WATSON, *Providence*, 66 Meeting St.
Brown University A. B. 1888
Physics, Mathematics

JAMES LUCAS WHEATON JR., *Pawtucket*, Pawtucket.
Brown University B. P. 1891
Comparative Anatomy, Physiology

HARRY CLIFFORD WHIPPLE, *Providence*, 189 Academy Ave.
Brown University B. P. 1895
English Language and Literature

ADA GENEVA WING, *Palmer, Ms.*, 111 Bowen St.
Wellesley College A. B. 1887
Comparative Anatomy, Physiology

NORA GIRALDA WRIGHT, *Olneyville*, Olneyville.
Bates College A. B. 1895
Pedagogy, English

II. Registered as *in absentia* yet resident near the University and able to enjoy certain of its privileges.

ELLA MARIA ADAMS, *Pawtucket*, Pawtucket.
Smith College A. B. 1893
German

AMEY OWEN ALDRICH, *Providence*, 8 Cushing St.
Smith College B. L. 1895
Pedagogy, English

JOSEPH BRIDGHAM, *East Providence*, East Providence.
Brown University B. P. 1867
Botany, Comparative Anatomy

LEONARD HERBERT CAMPBELL, *Providence*, 213 Pavilion Ave.
Brown University A. B. 1892
History, Political Economy

EDWARD NORTON CASEY, *Whiting, Vt.*, Providence.
Brown University A. B. 1893
Social Science, History

HEZEKIAH ANTHONY DYER, *Providence*, 154 Power St.
Brown University B. P. 1894
Fine Arts

| | | |
|---|---|---|
| EDGAR BENJAMIN FRENCH,<br>Brown University A. B. 1890<br>German, Philosophy | *Pawtucket*, | Pawtucket. |
| JOHN FREDERICK HALLER,<br>Buffalo Medical School M. D. 1888<br>German, English, Rhetoric | *Providence*, | 271 Washington St. |
| FRANK EDWIN LAKEY,<br>Brown University A. B. 1894<br>Social Science, History | *Providence*, | 127 Cranston St. |
| KATHERINE GERTRUDE LYNCH,<br>Smith College A. B. 1894<br>History, English, Pedagogy | *N. Attleboro, Ms.*, | 64 Appleton St. |
| JOSEPH BELFIELD MCINTYRE,<br>Brown University B. P. 1894<br>Mathematics, Mechanics | *Central Falls*, | 36 Rand St. |
| CHARLES ALBERT MEADER,<br>Brown University A. B. 1891<br>Philosophy, German | *Pawtucket*, | Pawtucket. |
| LILLIAN BURLEIGH MINER,<br>Wellesley College A. B. 1889<br>English | *Providence*, | 84 Melrose St. |
| ELIZA METCALF PEIRCE,<br>Smith College A. B. 1889<br>Philosophy, English | *Providence*, | 1 Bell St. |
| JAMES ALDRICH PIRCE,<br>Brown University A. B. 1892<br>History | *Johnston*, | Johnston. |
| WILLIAM JOB REYNOLDS,<br>Brown University A. B. 1886<br>Oriental History | *Providence*, | 268 Waldo St. |
| WALTER HERBERT RUSSELL,<br>Boston University A. B. 1887<br>German, French | *Edgewood*, | 20 Wheeler Ave. |
| HENRY DEXTER SHARPE,<br>Brown University A. B. 1894<br>History, Political Economy | *Providence*, | 56 Angell St. |
| LUCIAN SHARPE JR.,<br>Brown University A. B. 1893<br>History, Political Economy | *Providence*, | 56 Angell St. |
| CATHERINE MARIA UTTER,<br>Vassar College A. B. 1894<br>Fine Arts | *Providence*, | 172 Pleasant St. |
| WALTER ALLEN YOUNG,<br>Brown University B. P. 1891<br>Pedagogy, Ethics | *Providence*, | 140 Doyle Ave. |

III. Fully *in absentia*.

EMILY FRANCES ALLEN, Box 2177, *Boston, Ms.*
Boston University B. P. 1891
English History

HENRY WARD BEECHER ARNOLD. *West Lebanon, N. H.*
Brown University A. B. 1893
Mathematics, Mechanics, Physics

SHARONTON HALE BAKER, *Willimantic, Ct.*
Brown University A. B. 1883
Political Economy, Greek

EDWARD OTIS BARTLETT, JR., *Cornwall-on-Hudson, N. Y.*
Brown University A. B. 1891
German, French

JOSIAH BARTLETT, *Sing Sing, N. Y.*
Brown University B. P. 1888
Mathematics, German

ARTHUR TRAIN BELKNAP, *Newton Centre, Ms.*
Brown University A. B. 1893
English, Philosophy

ELI WHITNEY BLAKE, *Syracuse, N. Y.*
Brown University A. B. 1888
Zoology, English

WARREN GARDNER BULLARD, *Geneva, N. Y.*
Brown University A. B. 1892
Mathematics

CHARLES EDWIN BURDETTE, *Gauhati, Assam, India.*
Brown University A. B. 1880
Sanskrit

WILLIAM ALLEN CALDWELL, *Lebanon, Tenn.*
Cumberland College A. B. 1892
Greek, German, Latin, Spanish

SETH HOWARD CHACE, *Attleboro, Ms.* 23 Peck St.
Brown University A. B. 1893
Political and Social Science

JAY ROGERS DICKINSON, *Beaver Dam, Wis.*
Brown University B. P. 1895
English, French

HERSHEL LUTHER GARDNER, 118 45th St., *New York City.*
Columbia College A. B. 1892
History

WILLIAM JOHN GREEN, 63 Irving Place, *New York City.*
Brown University A. B. 1891
Ethics, History

GEORGE ROBINSON HAZARD, *Baltimore, Md.*
Brown University A. B. 1894
Philosophy, Hebrew, History

DANIEL HOWARD, *Wallingford, Ct.*
Brown University A. B. 1893
History, Social Science, Political Economy

ANNA BELLE JENKS, *Zürich, Switzerland.*
Wellesley College A. B. 1890
Latin, German

EDGAR MANN JOHNSON, *Poquonock, Ct.*
Brown University A. B. 1893
German, French

ARTHUR JOSEPH LLEWELLYN, *Kenwood, Cal.*
Brown University A. B. 1893
Philosophy, English

SETH PADELFORD REMINGTON, *Cambridge, Ms.*
Brown University A. B. 1894
History, Roman Law

HERBERT HOWARD RICE, 221 Columbus Ave., *Boston, Ms.*
Brown University A. B. 1892
Political Economy, History

ARTHUR W. RIDER, 6 Barnard Park, *Los Angeles, Cal.*
Illinois College A. B. 1886
History, Philosophy

DAVID GRANT SMYTH, *Hartford, Ct.*
Brown University A. B. 1889
Mathematics

MORTON COLLINS STEWART, *Quincy, Ill.*
Brown University B. P. 1894
German

FRANK ARTHUR UPDIKE, *Atlanta, Ga.*
Brown University A. B. 1893
Political Science, Social Science

ALFRED REYNOLDS WIGHTMAN, *Morgan Park, Ill.*
Brown University A. B. 1893
History, English

FRANK EDWARD WINSOR, 93 Lincoln St., *Boston, Ms.*
Brown University B. P. 1891; C. E. 1892
Mechanics, Geology

## CANDIDATES FOR THE DEGREE OF CIVIL ENGINEER

| | | |
|---|---|---|
| OSCAR FRANCIS BELLOWS,<br>Brown University B. P. 1895 | *Providence*, | 38 Maple St. |
| WILLIAM COWPER STRATTON,<br>Brown University A. B. 1895 | *Scottdale, Pa.*, | Messer 11. |

## SPECIAL COURSES

| | | |
|---|---|---|
| SARAH MARIA FISHER,<br>Boston University A. B. 1895 | *Providence*, | 12 Franklin St. |
| EMOGENE MIRIAM MANNING,<br>Brown University A. B. 1895 | *Providence*, | 424 Cranston St. |
| ALVIN DWIGHT SHEPARD,<br>Bates College A. B. 1892 | *Valley Falls*, | Valley Falls. |
| HENRY BENNETT SLADE,<br>Brown University A. B. 1895 | *Providence*, | 16 Andem St. |
| CHARLES EDWARD TILLEY,<br>Amherst College A. B. 1892 | *Providence*, | 56 Hammond St. |

# UNDERGRADUATES

## SENIOR CLASS

| NAME | RESIDENCE | ROOM |
|---|---|---|
| John Henry Harlow Alden, | *Middleborough, Ms.*, | Slater 12. |
| James Ellis Ames, | *Brockton, Ms.*, | Hope 17. |
| Charles Montgomery Angle, | *Stroudsburg, Pa.*, | Hope 30. |
| Carroll Harry Ash, | *Lisbon, N. H.*, | Messer 16. |
| Justin Homer Bacon, | *Bellows Falls, Vt.*, | Messer 16. |
| Allen Buell Bicknell, | *Providence*, | Hope 17. |
| William Carpenter Bliss, | *East Providence*, | 19 College St. |
| Edward Everett Bucklin, | *Providence*, | University 56. |
| Joseph Richard Bullock Jr., | *Providence*, | 30 Lockwood St. |
| Champlin Burrage, | *Portland, Me.*, | Hope 5. |
| Arthur Deerin Call, | *Cortland, N. Y.*, | University 16. |
| Lewis Marsh Carr, | *Alton, Ill.*, | Hope 24. |
| George White Chipman, | *Wareham, Ms.*, | 21 Brown St. 5. |
| Chester Stanley Churchill, | *Whitman, Ms.*, | University 22. |
| Samuel Belden Churchill, | *Pittsfield, Ms.*, | University 28. |
| George Ellett Coghill, | *Roseville, Ill.*, | 112 George St. |
| Robert Harvey Day, | *Providence*, | University 22. |
| Charles Frederick Deacon, | *Pawtucket*, | Hope 18. |
| Leon Hayes Denison, | *Deep River, Ct.*, | Slater 8. |
| Horace Paul Dormon, | *Salem, N. J.*, | Hope 30. |
| Gasherie De Witt Dowling, | *Philadelphia, Pa.*, | University 19. |
| Robert William Drawbridge, | *Middleton, N. H.*, | Hope 48. |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Charles Reginald Easton, | *Lincoln*, | Lincoln. |
| John Blair Edwards, | *Upper Alton, Ill.*, | Slater 15. |
| Burton Sanderson Flagg, | *Littleton, Ms.*, | Hope 38. |
| Charles Jay Foskett, | *Utica, N. Y.*, | Maxcy 201. |
| Theodore Clyde Foster, | *Providence*, | University 58. |
| George Frederick Frost, | *Hyde Park, Ms.*, | University 28. |
| Clarence Mason Gallup, | *Norwich, Ct.*, | University 51. |
| Irving Henry Gamwell, | *Holliston, Ms.*, | Hope 13. |
| Seth Ashley Gibson, | *Providence*, | Hope 48. |
| George Francis Green, | *Fall River, Ms.*, | Slater 19. |
| Ronald Conrad Green, | *Providence*, | 14 John St. |
| Harry Sylvester Greene, | *Woonsocket*, | Hope 19. |
| Carleton Hale, | *Providence*, | Hope 39. |
| William Rae Harper, | *Erie, Pa.*, | 21 Brown St. 6. |
| Lester Çarl Holmberg, | *Campello, Ms.*, | Slater 3. |
| George Hopkinson, | *Perkinsville, Vt.*, | Messer 14. |
| Herbert Bradford Horton, | *East Providence*, | Hope 29. |
| Daniel Mansfield Hoyt, | *Minneapolis, Minn.*, | Slater 1. |
| Gardner Kirk Hudson, | *Fitchburg, Ms.*, | Hope 8. |
| John Mercer Hunt, | *Salem, N. J.*, | Messer 13. |
| Henry Felton Huse, | *Boston, Ms.*, | University 55. |
| Marcus Wilson Jernegan, | *Edgartown, Ms.*, | Messer 5. |
| Frederick Augustus Jones, | *Bl'k Riv. Falls, Wis.* | Maxcy 433. |
| William Augustine Jones, | *Providence*, | Slater 2. |
| Alvan Alden Kempton, | *Newport, N. H.*, | Hope 28. |
| William Herbert Kenerson, | *Providence*, | Slater 19. |
| Howard Day Kenyon, | *Pawtucket*, | University 31. |
| Herbert Bowman Lang, | *Andover, Ms.*, | Slater 6. |
| Abraham LeGrand, | *Milwaukee, Wis.*, | 20 Wheaton St. |
| Edward Allen Locke, | *Whitman, Ms.*, | University 22. |
| Harry Saxton Mabie, | *Boston, Ms.*, | Hope 38. |
| Ernest Hoxsie Mathewson, | *Bellingham, Ms.*, | 185 Williams St. |
| George Arnold Matteson, | *Providence*, | University 18. |
| William Alexander McAuslan, | *Providence*, | Slater 13. |
| Stewart Alfred McComber, | *Globe Village, Ms.*, | 112 George St. |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Alfred Bertrand Meacham, | *Stoneham, Ms.*, | Hope 23. |
| Theodore Clarkson Merrill, | *Providence*, | Hope 6. |
| Haven Metcalf, | *Winthrop, Me.*, | Hope 6. |
| William Francis Miner, | *East Providence*, | East Providence. |
| Wesley Elias Monk, | *Campello, Ms.*, | Slater 20. |
| Albert Swift Morse, | *Fairhaven, Ms.*, | Hope 25. |
| Edward Baily Morse, | *Grafton, Ms.*, | University 10. |
| Anthony Ambrose Mulligan, | *Woonsocket*, | University 20. |
| John Samuel Murdock, | *Moosup, Ct.*, | Hope 35. |
| Albert Rodman Nichols, | *Providence*, | Hope 6. |
| Charles Palmer Nott, | *Burlington, Vt.*, | 112 George St. |
| William Pierce Otis, | *Providence*, | University 14. |
| Jesse Bell Owen, | *Stonington, Ill.*, | Maxcy 316. |
| Ernest Victor Page, | *Johnston*, | University 45. |
| Edward Stark Parker, | *Providence*, | 216 Benefit St. |
| George Lincoln Parker, | *Fitchburg, Ms.*, | Hope 36. |
| Robert Simmons Phillips, | *New Bedford, Ms.*, | Hope 22. |
| Tristram Cleveland Phinney, | *Edgartown, Ms.*, | 19 Angell St. |
| William Edward Price, | *Brockton, Ms.*, | Hope 44. |
| Elmer Jeremiah Rathbun, | *Noose Neck*, | Messer 11. |
| James Helme Rickard Jr., | *Woonsocket*, | Messer 7. |
| Edward North Robinson, | *Danvers, Ms.*, | Hope 43. |
| Will Austin Robinson, | *E. Gloucester, Ms.*, | 257 Benefit St. |
| Henry Hall Rockwell, | *Chicago, Ill.*, | University 58. |
| James Wylie Ross, | *Snider, Tenn.*, | Maxcy 203. |
| William Webster Rugg, | *Perkinsville, Vt.*, | Hope 14. |
| Robert Clark Sanger, | *Fr'nklin Falls, N. H.* | 112 George st. |
| William Briggs Savery, | *Attleborough, Ms.*, | Attleborough. |
| Frank Edward Smith, | *Brockton, Ms.*, | University 34. |
| Henry Lawrence Smith, | *Providence*, | 242 Wayland Ave. |
| Howard Revere Smith, | *Portsmouth, N. H.*, | Maxcy 319. |
| Jesse Fowler Smith, | *East Hartford, Ct.*, | Hope 21. |
| John William Smith, | *Providence*, | Hope 22. |
| Charles Sumner Stedman, | *Albany, N. Y.*, | Hope 23. |
| William Harris Steere, | *Providence*, | Hope 9. |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Allison Stone, | *Providence.* | Slater 8. |
| Samuel Richmond Stratton, | *Salem, N. J.,* | Messer 13. |
| Mason Martin Swan, | *Belleville, N. Y.,* | Maxcy 436. |
| Harry Luke Thompson, | *East Providence,* | 18 Summit St. |
| James Humphrey Thurston, | *Providence,* | 64 Congdon St. |
| George Bickford Van Doren, | *Chaumont, N. Y.,* | Hope 34. |
| Joseph Canfield Van Doren, | *Chaumont, N. Y.,* | Hope 34. |
| Sumner Redway Vinton, | *Rangoon, Burma.* | 54 Willow St. |
| Robert Churchill Vose, | *Providence,* | 21 Angell St. |
| Everett Lewis Walling, | *Woonsocket,* | Hope 37. |
| Henry Herbert Waterman, | *Providence,* | 22 Baker St. |
| Robert Young, | *Bristol.* | University 44. |

# JUNIOR CLASS

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Samuel Adams, | *West Haven, Vt.*, | University 31. |
| Arthur Moulton Allen, | *Providence*, | Hope 44. |
| Charles Henry Allen, | *Needham, Ms.*, | University 30. |
| Chester Willard Allen, | *East Boston, Ms.*, | Hope 3. |
| Horatio Cushing Allen, | *Marion, Ms.*, | Hope 22. |
| Raymond Cleaveland Allen, | *Manchester, Ms.*, | Howell 4. |
| Seril Clemence Armstrong, | *Woonsocket*, | Hope 15. |
| Fred Atwell Arnold, | *Pawtucket*, | Maxcy 209. |
| Martin Hollis Arnold, | *Providence*, | 41 Chapin Ave. |
| James Hope Arthur, | *Providence*, | Slater 13. |
| Arthur Francis Ballou, | *Woonsocket*, | Hope 15. |
| William John Ballou, | *Wallingford, Vt.*, | 21 Brown St. 11. |
| Waldo Reynolds Bartlett, | *Burrillville*, | Hope 19. |
| Roscoe Hosmer Belknap, | *Framingham, Ms.*, | Hope 31. |
| Henry Wells Newell Bennett, | *Manchester, N. H.*, | Hope 32. |
| Charles Knowles Bidwell, | *Warren Pr Mlls N J* | University 28. |
| Horace Greeley Bissell, | *Apponaug*, | University 28. |
| George Miles Bliss, | *East Providence*, | 19 College St. |
| Fred Emerson Briggs, | *Attleborough, Ms.*, | University 19. |
| Howard Bowen Briggs, | *Providence*, | University 48. |
| Edwin Cornelius Broome, | *Central Falls*, | University 13. |
| Clarence Rhodes Budlong, | *Providence*, | 189 Governor St. |
| Paul Revere Bullard, | *Waltham, Ms.*, | 37 Creighton St. |
| Alfred Walker Bullock, | *Pawtucket*, | Maxcy 209. |
| Arthur Hale Chamberlain, | *Portland, Me.*, | Hope 26. |
| Allen Herbert Chase, | *Providence*, | Maxcy 314. |
| Marion McAllister Clarke, | *Newport*, | Hope 39. |
| Charles Eugene Clift, | *Middlet'n Sp'gs, Vt.*, | Howell 3. |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Everett Colby, | *New York, N. Y.*, | Slater 10. |
| William Coleman, | *Valdosta, Ga.*, | Maxcy 432. |
| Elijah William Collins, | *Pawtucket*, | Slater 6. |
| Maurice Howe Cooke, | *Providence*, | University 19. |
| James Parker Coombs, | *Pleasant Dale, Me.*, | 21 Brown St. 13. |
| Arthur Maxson Cottrell, | *Westerly*, | Hope 7. |
| George Rice Coughlan, | *Adams, N. Y.*, | Hope 33. |
| John Harrington Cox, | *St. Louis, Mo.*, | Hope 13. |
| Eben Creighton, | *Thomaston, Me.*, | 33 Benevolent St. |
| Lefferts Mason Dashiell, | *Lakewood, N. J.*, | Slater 11. |
| John Howard Deming, | *Beachmont, Ms.*, | Pease House 20. |
| Robert Stephen Emerson, | *Pawtucket*, | Maxcy 209. |
| William Milnes Faux, | *Patterson, N. J.*, | Howell 9. |
| Carl Russell Fish, | *Providence*, | 18 Cabot St. |
| Timothy Aloysius Fitzgerald, | *Millville, Ms.*, | Messer 2. |
| Frank Ballou Follett, | *Ashton*, | Messer 12. |
| Albert Orson Foster, | *Utica, N. Y.*, | University 49. |
| George Stephenson Fox, | *Fall River, Ms.*, | 21 Brown St. 8. |
| George Wilsey Gates, | *Otego, N. Y.*, | Hope 9. |
| Will Friend Geisler, | *Holbrook, Ms.*, | 12 Congdon St. |
| Charles Wilson Goodwin, | *Providence*, | 369 Weybosset St. |
| Murray West Gordon, | *Bethlehem, N. H.*, | Pease House 23. |
| Eric Hastings Green, | *Providence*, | 14 John St. |
| Herlwyn Ruggles Green, | *Providence*, | 14 John St. |
| Albert Angus Griffin, | *Fr'nklin Falls, N. H.* | 21 Brown St. 7. |
| Russell Grinnell, | *New Bedford, Ms.*, | University 25. |
| Sanford Keith Gurney, | *Brockton, Ms.*, | Slater 14. |
| Augustin Powell Hamlin, | *Newport*, | Maxcy 208. |
| Arthur Murray Hancock, | *Fr'nklin Falls, N. H.* | Hope 43. |
| Charles Augustus Harris, | *Fairhaven, Ms.*, | Hope 47. |
| Ralph Bertram Harris, | *Salem, Ms.*, | Slater 5. |
| William Andrew Harris Jr., | *Providence*, | 140 Prospect St. |
| Joseph Charles Hartwell, | *Providence*, | Slater 6. |
| George Coggeshall Hatch Jr., | *New Bedford, Ms.*, | Hope 29. |
| Russell Hathaway Jr., | *Fairhaven, Ms.*, | Hope 47. |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Daniel Franklin Holmes, | *Providence*, | 16 Federal St. |
| Leonard Wheaton Horton, | *Providence*, | 47 Wilson St. |
| Sidney Daniels Humphrey, | *Providence*, | Hope 43. |
| Joseph Martin Jenckes, | *Providence*, | Hope 14. |
| Frank Oscar Jones, | *Providence*, | University 16. |
| George Potter King, | *Arlington*, | 43 Bassett St. |
| Howard Frost King, | *Thompsonville, Ct.*, | University 51. |
| John Joseph Lace Jr., | *Pascoag*, | Messer 7. |
| William Setchell Learned, | *Berkeley, Cal.*, | 33 Benevolent St. |
| Charles Ervin Lewis, | *Yarmouth, N. S.*, | University 13. |
| Clarence Hart Lingham, | *Boston, Ms.*, | Hope 10. |
| Benj. Thomson Livingston, | *Pawtucket*, | Pawtucket, |
| Marcus Ward Lyon Jr., | *Newark, N. J.*, | 33 Benevolent St. |
| Herbert Allen Matteson, | *Anthony*, | Hope 5. |
| William Vincent McCready, | *Providence*, | Hope 36. |
| Arthur Milton McCrillis, | *Providence*, | University 48. |
| Marcius Harold Merchant, | *Warren*, | University 10. |
| Isaac Butts Merriman, | *Nayatt Point*, | Maxcy 323. |
| Howard Tucker Metcalf, | *Providence*, | 180 Bowen St. |
| Herbert Cleveland Miller, | *Amherst, Ms.*, | Maxcy 436. |
| George Leland Miner, | *Providence*, | University 17. |
| Philip Wilfred Travis Moxom, | *Springfield, Ms.*, | Hope 41. |
| Jas. Roberts Decrevi Oldham, | *Woonsocket*, | Hope 15. |
| James Orin Otis, | *Providence*, | University 41. |
| Charles Dexter Owen Jr., | *Providence*, | Maxcy 324. |
| Thomas Edward Owens, | *Philadelphia, Pa.*, | Maxcy 432. |
| Chas. Leslie Fairbanks Paull, | *Somerset, Ms.*, | 21 Brown St. 12. |
| William Burgess Peck, | *Providence*, | Hope 8. |
| William Torrey Peckham, | *Providence*, | University 26. |
| Harold Wilder Perkins, | *Woonsocket*, | Slater 12. |
| Adelbert Phinney Jr., | *Edgartown, Ms.*, | Messer 5. |
| John Estey Warner Piddock, | *Hartford, Ct.*, | Hope 42. |
| Clinton Everett Potter, | *Olneyville*, | Olneyville. |
| Jared Harvey Randall, | *Leo, O.*, | University 31. |
| Arvid Reuterdahl, | *Providence*, | 325 Willard Ave. |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Joseph Chandler Robbins, | *Concord, N. H.*, | Hope 14. |
| Edward Sanford Roberts, | *Providence*, | University 17. |
| John Davison Rockefeller Jr., | *New York, N. Y.*, | Slater 11. |
| Turner Rollinson, | *Providence*, | 25 Delaine St. |
| Francis Augustus Rugg, | *Perkinsville, Vt.*, | Hope 14. |
| Frank Page Sackett, | *Providence*, | 177 George St. |
| Wilbur Allen Scott, | *Providence*, | University 36. |
| Walter Cyrus Sherman, | *East Dover, Vt.*, | Hope 2. |
| Harry Lodowich Shippee, | *East Greenwich*, | East Greenwich. |
| George Thurston Spicer, | *Providence*, | Slater 16. |
| Harris Elwood Starr, | *Providence*, | Hope 38. |
| Hiram Austin Stearns, | *Manchester, N. H.*, | Hope 46. |
| Edward Delano Stewart, | *Mystic, Ct.* | Hope 45. |
| Arthur Crowell Stone, | *Providence*, | University 41. |
| Herbert Lewis Swan, | *Charlotte, Me.*, | 612 Broad St. |
| Jonathan Taylor, | *Akron, O.*, | Pease House 3. |
| William Henry Thornley Jr., | *Pawtucket*, | Hope 4. |
| Walter Roy Tourtellot, | *Olneyville*, | Olneyville. |
| Charles Wayland Towne, | *Auburn, Me.*, | Slater 17. |
| James Tucker Jr., | *Providence*, | 51 Waterman St. |
| Jos. Whittemore Sweet Tucker, | *Edgewood*, | University 12. |
| Ernest Edward Tyzzer, | *Wakefield, Ms.*, | Hope 31. |
| Howard Harris Utley, | *Providence*, | University 12. |
| Howard Mason Van Gelder, | *Catskill, N. Y.*, | Slater 19. |
| Gregory Dexter Walcott, | *Warren*, | Hope 4. |
| Byron Sprague Watson, | *Providence*, | Maxcy 324. |
| Frank Elbert Watson, | *Springfield, Ms.*, | 51 Angell St. |
| Frank Rowland Wheeler, | *Mystic, Ct.*, | Hope 21. |
| Guy Montrose Whipple, | *Danvers, Ms.*, | University 51. |
| Charles Ernest White, | *Bellows Falls, Vt.*, | University 46. |
| David Mitchell White, | *Worcester, Ms.*, | Hope 42. |
| Roswell Storrs Wilcox, | *Providence*, | Hope 4. |

## SOPHOMORE CLASS

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Edward Lawrence Adams, | *Ashland, Ms.*, | 23 Howell St. |
| Paul Edwin Aldrich, | *Providence*, | 344 Benefit St. |
| James Sidney Allen Jr., | *E. Bridgewater, Ms.*, | University 33. |
| Audubon Arms, | *East Greenwich*, | East Greenwich. |
| Frederick William Arnold Jr., | *Providence*, | 159 Waterman St. |
| Harlan Judson Ballentine, | *Oakland, Cal.*, | No. Attleborough. |
| Warren James Ballou, | *Cumberland Hill*, | Hope 18. |
| Richard Jackson Barker Jr. | *Fall River, Ms.*, | Hope 18. |
| Albert Armington Barrows, | *Providence*, | Slater 6. |
| Dwight Kellogg Bartlett, | *Providence*, | 103 So. Angell St. |
| Oren Nelson Bean, | *Brentwood, N. H.*, | Pease House 18. |
| Charles Everett Bosworth, | *Warren*, | University 57. |
| Pliny Arthur Boyd, | *Woodbury, Ct.*, | Hope 3. |
| Charles Bradley Jr., | *Providence*, | Slater 7. |
| Arthur Mason Briggs, | *W. Mansfield, Ms.*, | Hope 1. |
| Arthur Palmer Briggs, | *Dighton, Ms.*, | Pease House 18. |
| Arthur Loring Brown, | *Providence*, | 104 Hope St. |
| William Henry Buffum, | *Providence*, | Maxcy 322. |
| Thomas Jayne Burrage, | *Portland, Me.*, | Hope 5. |
| William Hamlin Cady, | *Providence*, | Slater 6. |
| Hazen Albert Calhoun, | *Cambridgeport, Ms.*, | Howell 7. |
| Charles Carroll, | *Providence*, | 131 Tockwotten St. |
| George William Chaplin, | *Pawtucket*, | Maxcy 209. |
| Melvin Francis Church, | *Drownville*, | Drownville. |
| John Winthrop Comey, | *New York, N. Y.*, | Slater 5. |
| George Edgar Congdon Jr., | *Cranston*, | University 51. |
| Rufus Edward Corlew, | *Cortland, N. Y.*, | Maxcy 206. |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Gardner Cornett, | *Providence*, | Slater 2. |
| Henry John Corrigan, | *Providence*, | 37 Arthur Ave. |
| Frank Goodwin Crane, | *Toledo, O.*, | University 33. |
| Louis Allen Crocker, | *Brewster, Ms.*, | Pease House 6. |
| Clinton Harvey Currier, | *Manchester, N. H.*, | Hope 46. |
| Thomas Wesley Dammes, | *New York, N. Y.*, | Pease House 14. |
| Earnest Lincoln Darling, | *Providence*, | 109 Jewett St. |
| Theodore Everett Dexter, | *Central Falls*, | Maxcy 321. |
| George Leonard Drowne, | *Providence*, | University 21. |
| Chas. De Marcus Payne Eaton, | *Providence*, | University 59. |
| Charles Francis Eddy, | *Lime Rock*, | Messer 12. |
| Howard Wayland Farnum, | *Chepachet*, | Hope 9. |
| Joseph Henry Farrell, | *Pawtucket*. | Pawtucket. |
| John Kelsey Fenner, | *Johnston*, | Messer 4. |
| John Burnham Ferguson, | *Providence*, | 137 Beacon Ave. |
| Marsden Rhodes Foster, | *Boston, Ms.*, | 12 Congdon St. |
| Ertelle Elwell Franklin, | *Tioga Center, N. Y.*, | Pease House 14. |
| Robert Jaquith Fuller, | *E. Westm'rel'd, N. H.* | Hope 2. |
| David Louis Fultz, | *Stanton, Va.*, | Howell 4. |
| John Ashley Gammons, | *New Bedford, Ms.*, | Hope 26. |
| George Anthony Gaskill, | *Worcester, Ms.*, | University 49. |
| Charles Henry George 2d, | *Providence*, | University 43. |
| Louis Napoleon Gobeille, | *Woonsocket*, | Hope 32. |
| Howard Bowen Gorham, | *Providence*, | 236 Knight St. |
| Russell Chaffee Graves, | *Bennington, Vt.*, | University 42. |
| Warren Earl Greene, | *Providence*, | University 48. |
| Arthur Moses Greenwood, | *Ashburnham, Ms.*, | University 19. |
| William Taylor Grinnell Jr., | *Providence*, | University 25. |
| Arthur Leon Grover, | *Stroudwater, Me.*, | Maxcy 203. |
| Walter Amer Guile 2d, | *Providence*, | Hope 17. |
| Wilford Jay Gunn, | *Turner's Falls, Ms.*, | 112 George St. |
| Edward Stockbridge Gushee, | *Cambridge, Ms.*, | Hope 40. |
| Georgie Mackie Gustin, | *Attleborough, Ms.*, | Attleborough. |
| Ephraim Le Roy Hart, | *East Greenwich*, | East Greenwich. |
| Ratcliffe George Earl Hicks, | *Providence*, | Hope 35. |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| James Henry Higgins, | *Pawtucket*, | University 16. |
| Frank Edward Hopkins, | *Essex Junction, Vt.*, | 112 George St. |
| Arthur George Host, | *Providence*, | 12 Potter's Ave. |
| Edward Feiling Hull, | *Millbury, Ms.*, | Maxcy 435. |
| Harry Curtis Hull, | *Millbury, Ms.*, | Maxcy 435. |
| Ernest Morrill Hunt, | *Lakeport, N. H.*, | 21 Brown St. 8. |
| Richard Rallston Hunter, | *Mamoroneck, N. Y.*, | Slater 17. |
| Ralph Kingsley Hyde, | *Providence*, | 250 Charles St. |
| George Francis Jenks, | *Shelburne Falls, Ms.*, | Slater 18. |
| Luke Joseph Kavanaugh, | *W. Springfield, Ms.*, | Maxcy 317. |
| John Henry Kelaghan, | *Pawtucket*, | University 16. |
| Daniel Augustus Keough, | *Millville, Ms.*, | 112 George St. |
| Simon Sayles Lapham Jr., | *Providence*, | Hope 26. |
| William Lauder, | *So. Norwalk, Ct.*, | Slater 20. |
| Edgar Alexander Lewis, | *Belleville, N. Y.*, | 112 George St. |
| Charles Atwood Marsh, | *Lynn, Ms.*, | Maxcy 434. |
| Lester Benjamin Mathewson, | *Providence*, | 46 Carroll St. |
| Clifford Elmore McGlauflin, | *Mapleton, Me.*, | Pease House A. |
| George Alfred Mellen, | *Lawrence, Ms.*, | University 54. |
| Lester Walton Millman, | *Pawtucket*, | 21 Brown St. 5. |
| Francis Dionysius Monahan, | *Lynn, Ms.*, | Pease House 1. |
| Jairus Alpheus Moore, | *Deep River, Ct.*, | Slater 6. |
| George Winfield Morris, | *Johnston*, | Messer 4. |
| William Robert Morse, | *Springfield, Ill.*, | Hope 24. |
| Leo Francois Nadeau, | *East Providence*, | Riverside. |
| Dionysius Francis O'Brien, | *No. Brookfield, Ms.*, | 112 George St. |
| Bernard Wright Owen, | *Lynn, Ms.*, | Maxcy 316. |
| John Fiske Paine, | *Providence*, | 11 Franklin St. |
| Earl Carldor Pierce, | *Woonsocket*, | Hope 32. |
| Emory Lyon Place, | *Providence*, | University 13. |
| Lewis Tew Place, | *Providence*, | Slater 16. |
| William King Potter Jr., | *Edgewood*, | Hope 17. |
| Roland Cornell Powers, | *Providence*, | Slater 12. |
| Frank Albert Quimby, | *Hills Grove*, | Maxcy 317. |
| David Wallis Reeves Jr., | *Providence*, | Maxcy 205. |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Egbert Ellis Rhodes, | *Attleborough, Ms.*, | Maxcy 205. |
| John Joseph Riley, | *W. Springfield, Ms.*, | Maxcy 430. |
| Edw'rd Augustus Robinson Jr., | *Attleboro, Ms.*. | Maxcy 205. |
| Albert Lewis Rodman, | *Lafayette*, | Hope 7. |
| Ernest Clinton Rowell, | *N. Laurence, N. Y.*, | Hope 32. |
| William Edward Sarle, | *Warwick*, | Maxcy 321. |
| Woodbury John Scribner, | *Epsom, N. H.*, | Hope 32. |
| George Herbert Sherwood, | *Johnston*, | Johnston. |
| Fred Hubbard Sibley, | *West Sutton, Ms.*, | Howell 8. |
| William Adams Slade, | *Providence*, | Hope 48. |
| Fred Andrew Smart, | *S. Portland, Me.*, | Howell 4. |
| Thomas Ellwood Steere, | *Providence*, | Slater 6. |
| Franklin Keith Taft, | *Providence*, | 102 Waterman St. |
| John Remington Talcott, | *New London, Ct.*, | 16 Barclay St. |
| Joseph Taylor, | *Malton, Eng.*, | University 28. |
| Millett Taylor Thompson, | *Providence*, | 204 Bowen St. |
| Andrew Samuel Thomson, | *Alex'ndria Bay. N. Y.* | Hope 2. |
| George Hussey Tracy, | *Providence*, | 398 Washington St. |
| George Francis Troy, | *Providence*, | University 60. |
| Elihu Sanford Tuttle, | *Bristol, Ct.*, | University 46. |
| John Willis Upton, | *Tyngsboro, Ms.*, | University 56. |
| George Edward Walker, | *Lawrence, Ms.*, | 112 George St. |
| Stacy Reuben Warburton, | *Pawtucket*, | Hope 8. |
| Hezekiah Church Wardwell, | *Bristol*, | 12 Congdon St. |
| J. Ralph Wellman, | *Lawrence, Ms.*, | University 54. |
| John Edmund Wells, | *Olneyville*, | Olneyville. |
| Borden Durfee Whiting, | *Providence*, | Slater 4. |
| Howell George Wilcox, | *Providence*, | 513 No. Main St. |
| Willis Allin Wilder, | *Bethlehem, N. H.*, | Pease House 23. |
| James Mickel Williams, | *Waterville, N. Y.*, | 14 Cherry St. |
| William Eugene Winchester, | *Providence*, | 240 Camp St. |

## FRESHMAN CLASS

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Charles Bradbury Allen, | *New London, N.H.*, | Howell 7. |
| Charles Duke Atkins, | *Springfield, Ms.*, | Maxcy 430. |
| David Hastings Atwater, | *Syracuse, N. Y.*, | 26 Congdon St. |
| John Edward Babbitt, | *Bellows Falls, Vt.*, | Maxcy 429. |
| Henry Duncan Bailey, | *Carolina*, | Maxcy 425. |
| Dwight Wood Baker, | *Providence*, | Maxcy 207. |
| Russell Wightman Baker, | *Providence*, | Slater 13. |
| William Edward Baker, | *South Amboy, N. J.*, | Howell 8. |
| Howard Clark Barber, | *Hope Valley*, | Pease House 11. |
| Ralph Edwards Barker, | *Taunton, Ms.*, | Maxcy 210. |
| Harold Chester Barnefield, | *Pawtucket*, | Hope 2. |
| Walter Ives Bartlett, | *Providence*, | 3 West River St. |
| George William Baylis, | *Brooklyn, N. Y.*, | 33 Benevolent St. |
| George Safford Beal, | *Brockton, Ms.*, | 33 Benevolent St. |
| Samuel Marsden Beale Jr., | *Pawtucket*, | Pawtucket. |
| GeorgeW'shington Bennett Jr., | *Providence*, | Maxcy 430. |
| Earnest Simons Bishop, | *Providence*, | 61 Vernon St. |
| Albert Morton Blaisdell, | *Bradford, N. H.*, | 305 Point St. |
| Arthur Horace Blanchard, | *Providence*, | Hope 1. |
| Edgar Lee Blanchard, | *Pawtucket*, | 21 Brown St. 10. |
| Stephen Wentworth Bourn, | *Bristol*, | Maxcy 315. |
| Clarence Saunders Brigham, | *Providence*, | University 59. |
| Herbert Olin Brigham, | *Providence*. | University 59. |
| Howard Haines Brown, | *Camden, N. J.*, | Maxcy 431. |
| Harold Winifred Brown, | *Tiverton*, | Maxcy 212. |
| Lloyd Brown, | *Wollaston, Ms.*, | University 21. |
| Ralph Norman Brown, | *Providence*, | 8 Carr Court. |
| Nathaniel Frank Bryant, | *Newtonville, Ms.*, | Hope 33. |
| John Allen Buffinton, | *Providence*, | Hope 18. |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Walter Boardman Bullen, | *Newton Centre, Ms.*, | Hope 8. |
| John Dixon Burchard, | *So. Norwalk, Ct.*, | Howell 6. |
| Paul Henry Burns. | *No. Brookfield, Ms.*, | Messer 15. |
| James Winthrop Campbell, | *Biltmore, N. C.*, | Slater 7. |
| Neil Angus Campbell, | *Phenix*, | Phenix. |
| Oscar Algernon Card. | *Providence*, | University 60. |
| John Thomas Casey, | *Spencer, Ms.*, | 112 George St. |
| Laurence Herbert Chace, | *Orange, Ms.*, | E. Providence. |
| Merton Leland Chadsey, | *Providence*, | Hope 39. |
| Julian Clement Chase, | *Pawtucket*, | Maxcy 208. |
| James Harper Chase, | *Whitman, Ms.*, | University 32. |
| George Dudley Church, | *Providence*, | Slater 19. |
| Herbert Francis Clark, | *Providence*, | University 51. |
| Walter William Clark, | *Worcester, Ms.*, | Maxcy 204. |
| Alfred Theophilus Clarke, | *Jamaica, W. I.*, | 125 Cushing St. |
| John Arthur Clough, | *Worcester, Ms.*, | Maxcy 202. |
| Francis Sessions Cole, | *Providence*, | Maxcy 202. |
| Le Baron Carleton Colt, | *Providence*, | 105 Waterman St. |
| Wilmarth Holt Colwell, | *Barrington*, | Barrington. |
| Arthur Metcalf Comee, | *Woonsocket*, | Hope 16. |
| William Pratt Comstock, | *Providence*, | Maxcy 322. |
| John Edward Connolly, | *Providence*, | 91 Parade St. |
| Charles Osmond Cooke, | *Providence*, | 33 Hudson St. |
| Howard Lawrence Corthell, | *New York, N. Y.*, | 94 Holden St. |
| William Mather Cotton Jr., | *Providence*, | 16 Humboldt Ave. |
| Walter Coates Cottrell, | *Atlan. H'gl'ds, N. J.*, | Maxcy 431. |
| Thomas Hart de Coudres, | *Dryden, N. Y.*, | Maxcy 206. |
| Arthur Freeman Crowell, | *Providence*, | 255 Orms St. |
| Ira May Cushing, | *Brookline, Ms.*, | Maxcy 428. |
| Waldo Page Cutler, | *Woburn, Ms.*, | Maxcy 427. |
| Charles Bates Dana, | *Santa Rosa, Cal.*, | Slater 15. |
| George Warren David, | *Falmouth, Ms.*, | 112 George St. |
| George Howard Davis, | *Pawtucket*, | 21 Brown St. 10. |
| Charles Thompson Dewey, | *Gt. Barrington, Ms.*, | 12 Congdon St. |
| Charles Howard Dow, | *Providence*, | 147 Doyle Ave. |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Joseph William Dows Jr., | *Worcester, Ms.,* | Messer 8. |
| Henry Dean Church Dubois, | *Providence,* | 67 Pemberton St. |
| William Joseph Duffy Jr., | *Bristol,* | University 44. |
| Albert Edmund Dunn, | *Houlton, Me.,* | Pease House A. |
| Thomas Joseph Dunne, | *Brooklyn, N. Y.,* | Hope 37. |
| James Franklin Dyer, | *Portland, Me.,* | Maxcy 318. |
| Charles Daniel Easton, | *Lakeport, N. H.,* | 21 Brown St. 11. |
| Joseph Wilcox Ellis, | *New Bedford, Ms.,* | Maxcy 313. |
| Ralph Caleb Estes, | *Winn, Me.,* | 21 Brown St. 13. |
| Bernard Capen Ewer, | *No. Dighton, Ms.,* | Pease House 2. |
| Nathaniel Trull Ewer, | *Providence,* | 180 Power St. |
| William Ellis Farnham, | *East Providence,* | 2 Sixth St. |
| Wirt T Fellows, | *McMinnville, Ore.,* | Howell 2. |
| Evan Dale Field, | *Smithfield, Pa.,* | 33 Benevolent St. |
| Arthur Herbert Fitz, | *East Providence,* | East Providence. |
| Harry Cady Foster, | *Providence,* | 4 Lloyd St. |
| Frederic Alexander Fraser, | *Providence,* | University 60. |
| Eli Thompson Fryer, | *Hightstown, N. J.,* | 29 Angell St. |
| Caleb Allen Fuller, | *Providence,* | 277 Brook St. |
| Charles Israel Gates, | *Canonchet,* | 9 Pierce St. |
| Nathaniel Howland Gifford, | *Providence,* | Hope 11. |
| Arthur Leonard Giles, | *Providence,* | 35 Forest St. |
| John Mason Glen Jr., | *Geneva,* | Geneva. |
| Charles Woodbury Gorman, | *Providence,* | Maxcy 318. |
| George Albert Goulding, | *Providence,* | University 45. |
| Alexander Sutherland Grier, | *New York, N. Y.,* | Pease House 22. |
| Thomas Jefferson Griffin Jr., | *Providence,* | University 48. |
| Benjamin Ward Grim, | *Bridgeton, N. J.,* | Messer 1. |
| Clarence Herbert Guild Jr., | *Providence,* | 20 Pitman St. |
| Paul Shelly Guilford, | *Shelburne Falls, Ms.,* | Pease House 10. |
| Benjamin Franklin Haines, | *New Bedford, Ms.,* | Messer 14. |
| Gordon Dyer Hale, | *Providence,* | Maxcy 207. |
| Dwight Hubbell Hall, | *Bridgeport, Ct.,* | Maxcy 426. |
| Francis Henry Hammill, | *Bristol,* | University 44. |
| Edward Shannon Hanson, | *Taunton, Ms.,* | Slater 15. |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| James George Harris, | *Boston, Ms.*, | 11 Brown St. |
| Guilford Clinton Hathaway, | *Fall River, Ms.*, | 185 Williams St. |
| Hugh Vincent Hazeltine, | *Warren, Pa.*, | University 43. |
| Ralph Everett Heath, | *Edgewater, Ill.*, | Hope 27. |
| Mellinger Edward Henry, | *Herminie, Pa.*, | Pease House 11. |
| Harry Shreve Higgins, | *Bordentown, N. J.*, | Howell 9. |
| Daniel Augustine Hill, | *St. Louis, Mo.*, | Slater 4. |
| Ewing Hill Jr., | *St. Louis, Mo.*, | Slater 4. |
| Carlos Grout Hilliard, | *Saxtons River, Vt.*, | 33 Benevolent St. |
| Louis Rhodes Holmes, | *Providence*, | Hope 34. |
| Henry Wade Hopkins, | *Essex Junction Vt.*, | 32 Custom Ho. St. |
| Oliver Chase Horsman, | *Providence*, | Maxcy 433. |
| Eddy Phillips Howard, | *Providence*, | 584 Cranston St. |
| Roy Stanley Howe, | *Worcester, Ms.*, | Maxcy 201. |
| Charles Arnold Hull, | *Auburn*, | University 17. |
| Albert Foster Hunt, | *Fall River, Ms.*, | 21 Brown St. 12. |
| Irving Owen Hunt, | *Providence*, | Slater 8. |
| Rolla Elijah Hunt, | *Huntville, Vt.*, | 21 Brown St. 11. |
| Oliver Perry Hussey, | *Nashua, N. H.*, | Slater 17. |
| James Samuel Hyde, | *Fall River, Ms.*, | Maxcy 212. |
| Robert Milo Ives, | *Wallingford, Ct.*, | Hope 48. |
| Almon Andrus Jaynes, | *Norwich, N. Y.*, | University 55. |
| Hiram Cleveland Jenks, | *Pawtucket*, | 252 High St. |
| Francis Severance Johnson, | *San Jose, Cal.*, | Messer 15. |
| Nels Johnson, | *Rumford*, | Rumford. |
| John Packard Jordan, | *Pawtucket*, | 21 Brown St. 10. |
| Herbert Harley Kennedy, | *S. Framingham, Ms.*, | University 19. |
| James Manning Kent, | *Putnam, Ct.*, | Slater 15. |
| Revere Warren Kent, | *Pawtucket*, | 21 Brown St. 10. |
| William Franklin Koopman, | *W. Roxbury, Ms.*, | 64 Carrington Ave. |
| Albee Lovejoy Ladd, | *Osceola Mills, Wis.*, | 44 Sycamore St. |
| Wallace Rutherford Lane, | *North Hadley, Ms.*, | Messer 3. |
| Harry Benjamin Levis, | *West Chester, Pa.*, | 33 Benevolent St. |
| Nathan Whitm'n Littlefield Jr., | *Pawtucket*, | Pawtucket. |
| Harry Bertram Loud, | *Providence*, | Hope 26. |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Henry Morton Lovering Jr., | *Taunton, Ms.,* | Pease House 15. |
| Charles Walter Low. | *Brockton, Ms.,* | Hope 20. |
| Russell Crosby Lowell, | *Providence.* | 78 Bellevue Ave. |
| Richard Martin, | *Johnston,* | University 51. |
| Eugene Waterman Mason Jr., | *Providence,* | 149 Waterman St. |
| Byron Elmer Mathewson, | *Manton,* | Hope 8. |
| Joseph Jay McCaffrey, | *Providence,* | University 60. |
| Andrew Jackson McConnico, | *Vaiden, Miss.,* | Messer 4. |
| John Francis McEleney, | *Riverside,* | Riverside. |
| Ernest William McKeen. | *Providence,* | Maxcy 203. |
| Harold Tredenick Miller, | *Providence,* | 32 Baker Ave. |
| Frederic William Murphy, | *Brockton, Ms.,* | Hope 20. |
| Nathaniel Leo Niles, | *Providence.* | 159 Sixth St. |
| Wilfred Benson Norris, | *Somerset, Ms.,* | 37 Parkis Ave. |
| John Benedict O'Donnell, | *Providence,* | 285 Public St. |
| Raymond Lawson Olds, | *Newport, Vt.,* | Messer 10. |
| Elam Ward Olney, | *Providence,* | University 26. |
| Harald Webster Ostby, | *Providence,* | University 59. |
| George Warren Parker, | *Concord, N. H.,* | 305 Point St. |
| Earnest Angell Parkis, | *Slatersville,* | Hope 19. |
| Richard Roy Perkins, | *Hornellsville, N. Y.,* | Howell 10. |
| Thurston Mason Phetteplace, | *Providence,* | Hope 11. |
| John Cooper Price, | *Salem, N. J.,* | Maxcy 319. |
| Freeman Putney Jr., | *Gloucester, Ms.,* | 343 Thayer St. |
| George Henry Raymond, | *Winchendon, Ms.,* | Central Falls. |
| Fred Stanley Read, | *Chandlerville, Ill.,* | Messer 4. |
| Charles Cady Remington, | *Providence,* | Maxcy 433. |
| Willis Brown Richardson, | *Providence.* | 288 Broadway. |
| Frank Eddy Richmond 2d., | *Providence,* | Maxcy 322. |
| Charles Gilbert Robinson, | *Mansfield, Ms.,* | Hope 1. |
| John Davis Sage, | *Cincinnati, O.,* | University 18. |
| Carl Fred Schipper, | *Pekin, Ill.,* | Maxcy 320. |
| Ibe John Schipper, | *Pekin, Ill.,* | Maxcy 320. |
| Raymond Alfred Schwegler, | *Buffalo, N. Y.,* | 21 Brown St. 13. |
| Lion William Scudder, | *E. Providence,* | 26 Sutton St. |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Laurence Moss Shaw, | *Oaklawn*, | Hope 4. |
| Albert Henry Sheffield, | *Worcester, Ms.*, | Messer 8. |
| Arthur Noyes Sheldon, | *Providence*, | Hope 1. |
| Fred Albert Simmons, | *Adams, Ms.*, | Hope 10. |
| Charles Henry Smith Jr., | *Providence*, | Maxcy 425. |
| Rufus Albertson Soule Jr., | *New Bedford, Ms.*, | University 40. |
| Henry Butler Stearns, | *Manchester, N. H.*, | Hope 46. |
| Edward Amos Stockwell, | *Providence*, | 20 Cooke St. |
| Ralph Ewing Storey, | *McMinnville, Ore.*, | Howell 2. |
| Arthur Dunham Stout, | *N. Brunswick, N. J.*, | 20 Angell St. |
| John Irving Stubbert, | *New London, Ct.*, | Maxcy 315. |
| George William Sutcliffe, | *Worcester, Mass.*, | Messer 8. |
| Charles McCallum Teague, | *Warren, Me.*, | Pease House A. |
| Edward Everett Thompson, | *Fall River, Ms.*, | River Point. |
| Frederick Howard Tillinghast, | *Providence*, | 89 Power St. |
| John Barnes Tingley, | *Gloucester, Ms.*, | 343 Thayer St. |
| Harold Heathwood Totten, | *No. Attleboro, Ms.*, | Maxcy 205. |
| Edgar Francis Viles, | *Waltham, Ms.*, | University 57. |
| Fred Alvah Vose, | *Woonsocket*, | Hope 6. |
| Charles Albert Walsh, | *Providence*, | 293 Prairie Ave. |
| Raymer Balch Weeden, | *Providence*, | 158 Waterman St. |
| Harry Arthur Weeks, | *Manchester, N. H.*, | Hope 46. |
| Frank Merriam Whipple, | *Worcester, Ms.*, | Pease House 10. |
| Merwin White, | *Providence*, | 150 George St. |
| Howard Hough Wilkinson, | *Riverside*, | University 41. |
| Alonzo Roger Williams, | *Providence*, | 10 Cushing St. |
| Harry Jay Williams, | *Titusville, Pa.*, | 21 Brown St. 6. |
| Nelson Allen Wood, | *New Bedford, Ms.*, | Maxcy 427. |
| Walter Louis Wood, | *Riverside*, | Riverside. |
| Frank Ferris Woolley, | *Pawtucket*, | Maxcy 207. |
| William Watson Wyckoff, | *Marshall's Cr'k. Pa.*, | Pease House 22. |

## SPECIAL STUDENTS

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Frank Wesley Asquith, | *Germantown, Pa.,* | Messer 1. |
| John Francis Bannon, | *Central Falls,* | Central Falls. |
| Lewis Barker, | *Bangor, Me.,* | Pease House 16. |
| Francis Xavier Belanger, | *Providence,* | 122 Willow St. |
| Joseph Hill Bigelow, | *New York, N. Y.,* | Pease House 20. |
| Henry Manchester Boss Jr., | *Touisset,* | 29 Weybosset St. |
| Thomas Jefferson Brady, | *New Bedford, Ms.,* | Pease House 9. |
| Urban Charles Brewer, | *Danville, Ind.,* | Howell 10. |
| Milton Barrows Brown, | *Providence,* | University 59. |
| Carleton Ashburg Burgess, | *Ashland, Ms.,* | 38 Central St. |
| Edwin Arnold Bush 2d, | *Providence,* | University 51. |
| Frank Lippitt Cady, | *Providence,* | University 41. |
| Charles Wilbur Cary, | *Griswoldville, Ms.,* | East Providence. |
| Burton Henry Cooper, | *Providence,* | 42 Claverick St. |
| Claude Louis Faye Duhain, | *New York, N. Y.,* | 464Westminster St. |
| James Aloysius Dunne, | *Brooklyn, N. Y.,* | Hope 37. |
| John Whitman Emory, | *Bridgeton, Me.,* | 112 George St. |
| Charles John Engstrom, | *Providence,* | 1063 Chalkst'ne Av. |
| Arthur Endicott Fuller, | *Danvers, Ms.,* | Howell 7. |
| Owen Francis Gallagher, | *Providence,* | 206 Oxford St. |
| Howard Johnson Greene, | *Providence,* | 245 Broadway. |
| Daniel Henry Houlihan, | *Pawtucket,* | Pawtucket. |
| Luther Taylor Jackman, | *Brooklyn, N. Y.* | 33 Benevolent St. |
| Thomas Jacob, | *Jersey City, N. J.,* | Pawtucket. |
| Frederick Latimer Jenckes, | *Pawtucket,* | Maxcy 323. |
| Roswell Hill Johnson, | *Buffalo, N. Y.,* | Maxcy 211. |
| Thomas Kelly, | *New Bedford, Ms.,* | Messer 14. |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Walter Dunn Kilvert, | *Chillicothe, O.*, | University 27. |
| Holder Crary Kirby, | *New Bedford, Ms.*, | Slater 3. |
| Jerome Henry Knowles, | *Bar Harbor, Me.*, | Pease House 5. |
| John DeWitt Larry, | *Providence*, | 169 Congdon St. |
| Chauncey Avery Lockwood, | *Stamford, Ct.*, | 159 Friendship St. |
| Harry Hadfield Lowe, | *Edgewood*, | Edgewood. |
| William Mackintosh McNair, | *Providence*, | 234 Orms St. |
| Walter Wentworth Massie, | *Providence*, | 7 Brighton St. |
| Charles McCarthy, | *Brockton, Ms.*, | University 34. |
| William Harpin Mellor, | *Providence*, | 644 Douglas Ave. |
| Frank Cowperthwait Millard, | *No. Egremont, Ms.*, | 12 Congdon St. |
| James Joseph Nolan, | *Providence*, | 515 Douglass Ave. |
| Charles Eri Osborne, | *Morrisville, N. Y.*, | 74 Benevolent St. |
| Alpheus Appleton Packard, | *Providence*, | 115 Angell St. |
| Charles Willis Park, | *Millbury, Ms.*, | 54 Willow St. |
| Jesse Stetson Pevear, | *Lynn, Ms.*, | University 47. |
| Walter Dabney Phillips, | *Richmond, Va.*, | Pease House 9. |
| James Poland, | *Warwick*, | Maxcy 321. |
| Amasa Spaulding Putnam, | *West Sutton, Ms.*, | Waterman Ave. |
| Reuben Fuller Randall, | *Providence*, | 31 Ringgold St. |
| Edwin Augustine Rankin, | *Woonsocket*, | Hope 16. |
| Byron Johnson Rees, | *Providence*, | 47 Pratt St. |
| Edward Wadsworth Shead, | *Eastport, Me.*, | University 10. |
| Luther Walter Simonds, | *Providence*, | 1283 No. Main St. |
| Howard Randall Smart, | *Lincoln*, | Hope 6. |
| Henry Charles Speed, | *Lowell, Ms.*, | Hope 28. |
| Henry Travers Summersgill, | *Brooklyn, N. Y.*, | Hope 44. |
| Ernest De Witt Talbot, | *Providence*, | 67 Congdon St. |
| Robert Milton Tenney, | *Georgetown, Ms.*, | Pease House 12. |
| Edward Thayer Jr., | *Pawtucket*, | University 53. |
| William Ashton Thompson, | *Providence*, | 100 Doyle Ave. |
| Frederick Elijah Tifft, | *Bennington, Vt.*, | Providence. |
| David Elliot Tobias, | *Narragansett Pier*, | Hope 45. |

# WOMEN'S COLLEGE

UNDERGRADUATE STUDENTS WHO ARE REGULAR CANDIDATES FOR BROWN UNIVERSITY EXAMINATIONS, RECEIVING UNOFFICIAL INSTRUCTION IN COLLEGE STUDIES

## Senior Class

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Sarah Jane Bullock, | *Pawtucket*, | 208 East Ave. |
| Mabelle Alice Caffrey, | *Providence*, | 46 Abbott St. |
| Grace Mabelle Cleveland, | *East Providence*, | 59 Broadway, |
| Flora May Holt, | *Lowell, Ms.*, | 201 Pleasant St. |
| Margaret May Landon, | *Fairmount, Md.*, | 122 Fountain St., |
| Emma Bradford Stanton, | *Bristol*, | Bristol. |
| Charlotte Lusanne Tillinghast, | *Providence*, | 108 Angell St. |
| Florence Josephine Whiting, | *Plainville, Ms.*, | Plainville. |
| Edith Holmes Williston, | *Providence*, | 18 Harrison St. |

## Junior Class

| | | |
|---|---|---|
| * Alice Weeden Austin | *Providence*, | 1275 Westm'ster St. |
| Josephine Angell Beane | *Johnston*, | Johnston. |
| Martha Shepard Briggs, | *Attleborough, Ms.*, | Attlebrough. |
| Louise Mary Brough, | *Providence*, | 13 Pomona Ave. |
| Edith Maria Brown. | *Providence*, | 25 Pitman St. |
| Mary Arnold Brownell, | *Providence*, | 73 Prospect St. |
| Florence Potter Case, | *Providence*, | 89 Somerset St. |
| Nellie Frances Cooke, | *Providence*, | 18 Maple St. |
| Edna Frances Davis, | *Central Falls*, | Central Falls. |
| Ruth Story Devereux, | *Manton*, | Manton. |
| Alice Louise Gardner, | *Warren*, | 106 George St. |

* Deceased.

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Clara Angela Gomberg, | *Providence*, | 125 Thayer St. |
| Bertha Beatrice Grant, | *Providence*, | 40 Providence St., |
| Ida Ellis Hawkins, | *East Greenwich*, | East Greenwich. |
| Minnie Hannah Hough, | *Lonsdale*, | Lonsdale. |
| Sadie Emma McCready, | *Providence*, | 343 Thayer St. |
| Winifred Artemis Manatt | *Providence*, | 100 Bowen St. |
| Sarah Ethelyn Merrill, | *Central Falls*, | Central Falls. |
| Anna Louise Metcalf, | *West Upton, Ms.*, | 38 Congdon St. |
| Sarah Mabel Osborn, | *Warren*, | Warren. |
| Mabel Louise Potter, | *Fairhaven, Ms.*, | 87 Congdon St. |
| Linda Richardson, | *No. Attleboro', Ms.*, | No. Attleborough. |
| Eda May Round, | *Providence*, | 139 Superior St. |
| Ruth Smith Roundy, | *Beverly, Ms.*, | 73 Mathewson St. |
| Jessie Goodwin Tiffany, | *Barrington*, | Barrington Centre. |
| Caroline Luella Tuthill, | *Palmer, Ms.*, | 38 Congdon St. |
| Mary Drew Vaughan, | *Providence*, | 22 E. Manning St. |
| Clara Whitehead, | *Providence*, | 39 Kenyon St. |

## Sophomore Class

| | | |
|---|---|---|
| Adelaide Harris Arnold, | *Pawtucket*, | 44 Clay St. |
| Edna Bigelow Arnold, | *Pawtucket*, | 47 Beach St. |
| Lucy Anna Bates, | *Providence*, | 138 Messer St. |
| Myra Hibbard Butler, | *Wells River, Vt.*, | 100 Bowen St. |
| Anna Walcott Carpenter, | *Providence*, | 95 Benevolent St. |
| Kathrena Lauretta Cawley, | *Providence*, | 287 Gano St. |
| Mary Ida Crawford, | *Attleborough, Ms.*, | Attleborough. |
| Virginia Morgan Crumb, | *Riverside*, | Riverside. |
| Norma Garvin, | *Lonsdale*, | Lonsdale. |
| Phebe Rushmore Gifford, | *Providence*, | 32 Larch St. |
| Elizabeth Christina Grant, | *Providence*, | 85 Lippitt St. |
| Emma Hindley, | *Valley Falls*, | Valley Falls. |
| Grace Elizabeth Inman, | *Providence*, | 1632 Ch'lkstone Av. |
| Ethel Clare Jameson | *East Providence*, | East Providence. |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Emily Gardner Munro, | *Bristol*, | Bristol. |
| Katharine Marie Neuschuez, | *No. Attleboro', Ms.*, | No. Attleborough. |
| Harriet Elsie Spooner, | *Barre. Ms.*, | 122 Fountain St. |
| Caroline Edna Smith, | *Attleborough, Ms.*, | Attleborough. |
| Edith Augusta Thompson, | *Providence*, | 360 Willard Ave. |
| Ethel Ella Tower, | *Providence*, | 397 Pine St. |
| Ida Evelyn Waite, | *Providence*, | 14 Parkis Ave. |
| Margaret Lillian Wesley, | *Providence*, | 161 Smith St. |
| Amy Earle White, | *Attleborough, Ms.*. | Attleborough. |

## Freshman Class

| | | |
|---|---|---|
| Florence Bartlett, | *Providence*, | 32 Benevolent St. |
| Henrietta Griswold Benson, | *Providence*, | 123 Chester Ave. |
| Caroline Louise Briggs, | *Attleborough, Ms.*, | Attleborough. |
| Harriet Irving Brooks, | *Providence*, | 135 Grove St. |
| Alverda Laura Brown, | *Johnston*, | Johnston. |
| Charlotte Dickinson Brownell, | *Little Compton*, | 15 Diman Pl. |
| Ethel Clariet Brownell, | *Providence*, | 66 Ring St. |
| Sarah Elecia Bunnell, | *Bristol, Ct.*, | 343 Thayer St. |
| Fanny Burrill, | *Pawtuxet.* | Pawtuxet. |
| Julia Marguerite Cawley, | *Providence*, | 287 Gano St. |
| Agnes Elizabeth Clark, | *Providence*, | 9 Providence St. |
| Sarah Hale Colvin | *Riverpoint*, | Riverpoint. |
| Eva Elise Curtis, | *Bristol, Ct.*, | 343 Thayer St. |
| Helen Maude Eddy, | *Greenville*, | 343 Thayer St. |
| Adelaide Augusta Esten, | *Providence*, | 382 Pine St. |
| Lillian Estelle Everett | *Providence*, | 36 Locust St. |
| Ida May Fiske, | *Providence*, | Carleton St. |
| Anna Liguoria Gray, | *Providence*, | 466 Broad St. |
| Elizabeth Holbrook, | *Attleborough, Ms.*, | Attleborough. |
| Jenny Marie Jackson, | *Concord, N. H.*, | 20 Angell St. |
| Winnifred Belle King, | *Winsted, Ct.*, | 343 Thayer St. |
| Anne May Larry, | *Providence*, | 169 Congdon St. |
| Mary Beecher Leonard, | *Providence*, | 508 Broad St. |
| May Catherine McBain, | *Providence*, | 122 Elm St. |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Mary Anne McQuaid, | *Providence*, | 31 Quaid St. |
| Lillian Gertrude McQuillan, | *Pawtucket*, | 87 Central Ave. |
| Gertrude Edna Millard, | *Providence*, | 155 Pond St. |
| Josie Miner, | *East Providence*, | East Providence. |
| Susie Brigham Morse, | *Attleborough, Ms.*, | Attleborough. |
| Grace Howe Page, | *Johnston*, | Johnston. |
| Cassandra May Pierce, | *Johnston*, | Johnston. |
| Mary Abby Frink Randall, | *Providence*, | 83 Beaufort St. |
| Sarah Louise Simmons, | *Providence*, | 74 Armstrong Ave. |
| Alice Maude Tallman, | *Fairhaven, Ms.*, | 87 Congdon St. |
| Clara Belden Tingley, | *Gloucester, Ms.*, | 343 Thayer St. |
| Bertha Tucker, | *Pawtucket*, | Pawtucket. |
| Harriet Barrows Utter, | *Providence*, | 172 Pleasant St. |
| Mary Greene Wilbur, | *Providence*, | 616 Broad St. |
| Annie Louise Williams, | *Brattleboro, Vt.*, | Central Falls. |

## Special Students

| | | |
|---|---|---|
| Martha Louise Andrews, | *Providence*, | 91 Almy St. |
| Elizabeth Edge Armington, | *Riverside*, | Riverside. |
| Dora Barber, | *Providence*, | 20 Angell St. |
| Ethel Farnum Brown, | *Providence*, | 523 Manton Ave. |
| Edna Adelaide Brown, | *Providence*, | 523 Manton Ave. |
| Irene Louise Calef, | *Manton*, | Manton. |
| Clara Battey Cobb, | *Providence*, | 203 Point St. |
| Emeline Eddy Fitz, | *Burrillville*, | Burrillville. |
| Mary Newton Falconer, | *Providence*, | 115 Nar'ag'sett Ave. |
| Lucy Minerva French, | *Mendon, Ms.*, | 57 Parade St. |
| Ethel Garvin, | *Lonsdale*, | Lonsdale. |
| Florence Garvin, | *Lonsdale*, | Lonsdale. |
| Stella Josephine Hartshorn, | *Providence*, | 189 Wayland Ave. |
| Gertrude Selwyn Kimball, | *Providence*, | 120 Bowen St. |
| Nellie Josephine Munroe, | *East Providence*, | 120 Taunton Ave. |
| Laura Frances Parker, | *Concord, N. H.*, | 305 Point St. |
| Margaret Weston Richards, | *Providence*, | 144 Benefit St. |

| | | |
|---|---|---|
| Grace L. Slocum, | *Pawtucket*, | 30 Kossuth St. |
| Mabel Temple, | *North Adams, Ms.*, | 33 Benevolent St. |
| Bertha Louise Wilson, | *Lonsdale*, | Lonsdale. |
| Jessie Wilson, | *East Providence*, | East Providence. |

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SUMMARY

| | |
|---|---|
| Seniors | 9 |
| Juniors | 28 |
| Sophomores | 23 |
| Freshmen | 39 |
| Specials | 21 |
| Total | 120 |

## SUMMARY

| | | | |
|---|---|---|---|
| Graduates | 117 | Freshmen | 200 |
| Seniors | 104 | Select Course | 60 |
| Juniors | 130 | Women's College | 120 |
| Sophomores | 128 | | |
| Total | | | 859 |

## SUMMARY BY STATES

| | | | |
|---|---|---|---|
| Rhode Island | 451 | Indiana | 2 |
| Massachusetts | 180 | Virginia | 2 |
| New York | 43 | Maryland | 2 |
| New Hampshire | 31 | Oregon | 2 |
| Connecticut | 29 | Georgia | 2 |
| Vermont | 23 | Mississippi | 1 |
| Maine | 20 | Minnesota | 1 |
| New Jersey | 16 | North Carolina | 1 |
| Illinois | 12 | Nova Scotia | 1 |
| Pennsylvania | 12 | England | 1 |
| Ohio | 7 | West Indies | 1 |
| California | 6 | Switzerland | 1 |
| Wisconsin | 4 | Burma | 1 |
| Tenessee | 3 | Assam | 1 |
| Missouri | 3 | | |
| Total | | | 859 |

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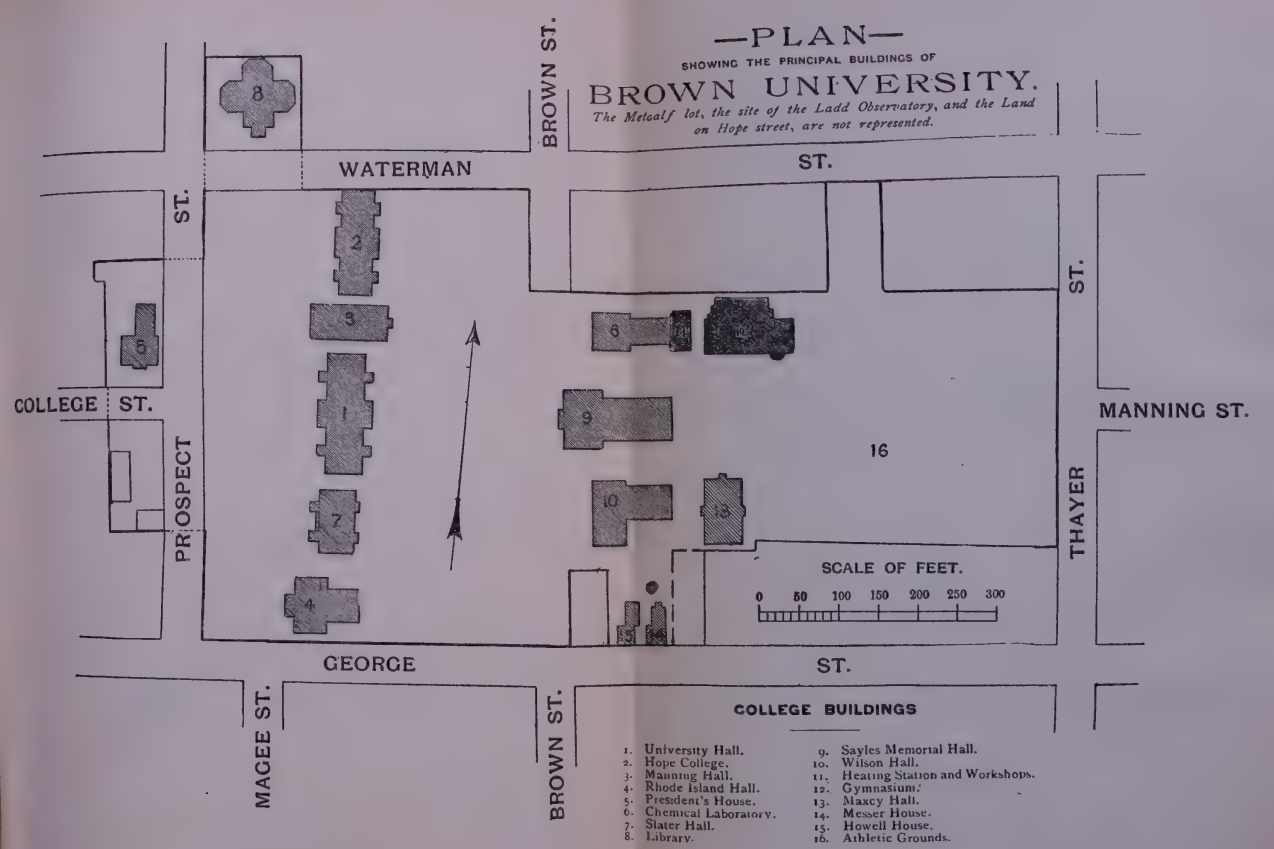
—PLAN—
SHOWING THE PRINCIPAL BUILDINGS OF
BROWN UNIVERSITY.
The Metcalf lot, the site of the Ladd Observatory, and the Land on Hope street, are not represented.
BROWN ST.
WATERMAN
ST.
ST.
ST.
COLLEGE ST.
PROSPECT
MANNING ST.
THAYER
16
SCALE OF FEET.
0 50 100 150 200 250 300
GEORGE
ST.
MACEE ST.
BROWN ST.
COLLEGE BUILDINGS
1. University Hall.
2. Hope College.
3. Manning Hall.
4. Rhode Island Hall.
5. President's House.
6. Chemical Laboratory.
7. Slater Hall.
8. Library.
9. Sayles Memorial Hall.
10. Wilson Hall.
11. Heating Station and Workshops.
12. Gymnasium.
13. Maxcy Hall.
14. Messer House.
15. Howell House.
16. Athletic Grounds.

Horace Williams.

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OF THE

# OFFICERS AND STUDENTS

OF

# BROWN UNIVERSITY

## 1896-97

PROVIDENCE, R. I.
REMINGTON PRINTING CO., 63 WASHINGTON STREET
1897

# CALENDAR 1896-97

| 1896 | Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---|---|---|---|---|---|---|---|
| July | .. | .. | .. | 1 | 2 | 3 | 4 |
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# COLLEGE CALENDAR 1896–97

*1896.*

*September 2.* *Wednesday* (first Wednesday in September). Annual Meeting of the Corporation, in the Old Chapel, University Hall.

*September 14, 15.* *Monday, Tuesday.* Examination of delinquents in College studies.

*September 14, 15.* *Monday, Tuesday.* Examinations for admission to the Freshman Class and to Advanced Standing.

*September 16.* *Wednesday.* ACADEMIC YEAR BEGINS.

*October 15.* *Thursday.* Last day for registration of Graduate Students.

*November 26.* *Thursday.* Thanksgiving Day. No College exercises on Thursday, Friday or Saturday of Thanksgiving week.

*December 17-23.* *Thursday to Wednesday.* Term examinations of College classes.

CHRISTMAS RECESS, from Wednesday Evening, December 23, 1896, to Monday Evening, January 4, 1897.

1897.

*January 5.* *Tuesday.* SECOND TERM BEGINS.

*January 28.* *Thursday.* Day of Prayer for Colleges.

*February 22.* *Monday.* Washington's Birthday. No College exercises.

*March 13-19.* *Saturday to Friday.* Term examinations of College classes.

SPRING RECESS, from Friday Evening, March 19, to Monday Evening, March 29.

*March 30.* *Tuesday.* THIRD TERM BEGINS.

*March 31.* *Wednesday.* Last day for receiving dissertations of candidates for the Doctorate.

*May 31.* *Monday.* Examinations for Advanced Degrees end.

*May 31.* *Monday.* Memorial Day. No College exercises.

*June 4-10.* *Friday to Thursday.* Term examinations of College classes.

*June 10.* *Thursday.* Hicks Prize Debate.

*June 11.* *Friday.* Class Day.

*June 13.* *Sunday.* Baccalaureate Sermon.

*June 14.* *Monday.* Sophomore Prize Declamation.

*June 15.* *Tuesday.* Annual Meeting of the Phi Beta Kappa Society, at 9.30 A. M.

*June 15.* *Tuesday.* Annual Meeting of the Alumni, in Manning Hall, at 4 P. M.

*June 16.* *Wednesday* (third Wednesday in June). ONE HUNDRED AND TWENTY-NINTH ANNUAL COMMENCEMENT.

*June 17.* *Thursday.* Meeting of the Corporation, in the Old Chapel, University Hall.

*June 17, 18, 19.* *Thursday, Friday, Saturday.* Examinations for admission to College.

SUMMER VACATION.

*September 1.* *Wednesday* (first Wednesday in September). Annual Meeting of the Corporation, in the Old Chapel, University Hall.

*September 13, 14.* *Monday, Tuesday.* Examination of delinquents in College studies.

*September 13, 14.* *Monday, Tuesday.* Examinations for admission to the Freshman Class and to Advanced Standing.

*September 15.* *Wednesday.* ACADEMIC YEAR BEGINS.

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81 South Angell Street.

FRANCIS GREENLEAF ALLINSON, PH. D.,
*Associate Professor of Greek*
*and of Classical Philology*,
434 Brook Street.

HENRY PARKER MANNING, Ph. D.,
*Assistant Professor of Pure Mathematics,*
3 Angell Place.

HAMMOND LAMONT, A. B.,
*Associate Professor of Rhetoric and Oratory,*
415 Brook Street.

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Ladd Observatory.

LOUIS FRANKLIN SNOW, A. M.,
*Dean of the Women's College*,
20 Taber Avenue; Office, 235 Benefit Street.

FREDERICK TAFT GUILD, A. M.,
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40 East Manning Street; Office, 2 University Hall.

EDWIN EDDY CALDER, A. M.,
*Instructor in Chemistry*,
Board of Trade Building.

WALTER MILLS SAUNDERS,
*Instructor in Chemistry*,
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*Instructor in Greek*,
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*Instructor in Musical Theory and History*,
372 Boylston Street, Boston.

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*Instructor in Latin*,
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*Instructor in Mathematics*,
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*Instructor in Mathematics*,
127 Power Street.

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EDWIN COLLINS FROST, A. B.,
*Instructor in Rhetoric*,
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*Instructor in Latin*,
30 Arch Street.

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*Instructor in French*,
4 Sayles Hall.

CHARLES MARSHALL POOR, PH. D.,
*Assistant in Rhetoric*,
10 Cushing Street.

JOSEPH RICHARD BULLOCK JR., B. P.,
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DORA AUGUSTA BARBER,
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347 Brook Street; Office, 3 University Hall.

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*Assistant in the Carpenter Shop*,
Washington Village.

FRANK EDWIN STARK,
*Assistant in the Machine Shop*,
170 Lockwood Street.

GEORGE MILTON GRAY,
*Assistant in the Anatomical Laboratory*,
62 George Street.

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*On the Curriculum*

Professors Poland, Davis, Gardner, Bumpus, Langdon, Randall and Bronson, and Mr. Guild.

*On Admission to Advanced Standing*

Professors Davis, Manly, Delabarre, Manning and Mead, and Messrs. Guild and Johnson.

*On Courses for Special Students*

Professors Upton, Randall, Allinson, Burnham and Palmer, and Messrs. Guild and Greene.

*On Graduate Students*

Professors Williams, Packard, Jameson, Harkness, Bumpus, Manatt, Crowell [Secretary] and Jacobs.

*On Absences*

Professors Wilson, Bailey, Sears, Everett, Hill and Dealey.

*On Athletic and other Student Organizations*

Professors Munro, Manly, Bronson, Captain Murray, and Mr. Parker.

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# RISE AND CONSTITUTION OF THE UNIVERSITY

Brown University owes its origin to the happy convergence of two separate lines of influence. So early as 1762 a "resolution to erect a college and institute a seminary for the education of youth somewhere in North America" had been formed by the Philadelphia Baptist Association, under whose auspices the Hopewell Academy, in New Jersey, had already been established. As Rhode Island had been settled on the principle of perfect toleration in religious belief, it was decided to apply to its legislature for a charter.

Ever after the residence here, from 1729 to 1731, of the distinguished Dean Berkeley, subsequently Bishop of Cloyne, Newport had been the centre of a pronounced intellectual interest, while the memory of Berkeley's scheme to found a college in America, with the actual erection of colleges in several of the other colonies, made it impossible that the suggestion of a college for Rhode Island should be strange or unwelcome to thoughtful people in that colony. The charter was granted, and read as follows:

> At the General Aſsembly of the Governor and Company of the English Colony of Rhode Island and Providence-Plantations in New England in America, begun and held at East Greenwich within & for said Colony by adjournment upon the last Monday of Febr one Thousand Seven Hundred and Sixty-four, and in the fourth Year of the Reign of His Most Sacred Majesty George the Third, by the Grace of God, King of Great Britain and so forth

WHEREAS Inſtitutions for liberal Education are highly beneficia to Society, by forming the rising Generation to Virtue Knowl edge & useful Literature & thus preserving in the Community a Succeſsion of Men duly qualify'd for discharging the Offices of Life with usefulneſs & reputation they have therefore justly merited & received the attention & Encouragement of every wise and well regulated State, and whereas a Public School or Seminary erected for that purpose within this Colony, to which the Youth may freely resort for Education in the Vernacular & Learned Languages & in the liberal Arts & Sciences, would be for the general Advantage & Honor of the Government, and whereas

| | | |
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| | | Nicholas Tillinghast Esqr |
| Mr Thomas Eyres | Mr John Waterman | |
| | | Nicholas Gardiner Esqr |
| Mr Thomas Potter Junr | Mr James Barker Junr | Cole. Joſias Lyndon |
| Mr Peleg Barker | Mr John Holmes | Cole Eliſha Reynolds |
| Mr Edwd Thurston | Solomon Drown Esqr | |
| Mr Wm Redwood | Mr Saml Windſor | Peleg Thurston Esqre |
| | | Simon Peaſe Esqre |
| Joseph Clarke Esqr | Mr Joseph Sheldon | |
| Mr John G. Wanton | Charles Rhodes Esqre | John Tillinghast Esqre |
| | | George Haszard Esqre |
| Mr Thos Robinſon | Mr Nicholas Brown | Cole Job Bennet |
| | Cole Mr Barzilla Richmond | Nicholas Easton Esqre |
| | Mr John Brown | Arthur Fenner Esqre |

with many other Perſons appear as undertakers in the valuable design, & thereupon a Petition has been preſer'd to this Aſsembly praying that full Liberty and Power may be granted unto such of them with others as are hereafter mentioned to found endow, order & govern a College or University within this Colony & that for the more effectual execution of this design they may be incorporated into one Body Politic to be known in the Law with the powers priviledges & franchiſes neceſsary for the purpose aforesaid—

Now, therefore know ye that being willing to encourage and patronise ſuch an honorable and useful Inſtitution, we the said Governor & Company in General Aſsembly convened do for ourselves and our

Succeſsors in and by virtue of the Power and Authority within the Jurisdiction of this Colony to us by the Royal Charter granted & committed enact grant conſtitute ordain & declare & it is hereby enacted granted conſtituted ordained and declared that the

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| Revd Ruſsel Mason | Mr John G. Wanton | Hon'ble Joseph Wanton Junr Esqre |
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| Colo Josias Lyndon | Revd Jeremiah Condy | Hon'ble Samuel Ward Esqre |
| Colo Job Bennet | Revd Marmaduke Brown | Hon'ble William Ellery Esqre |
| Mr Ephraim Bowen | Revd Gardner Thurston | " John Tillinghast Esqre |
| Joshua Clarke Esqre | Revd Ezra Stiles | " Simon Pease Esqre |
| Capt Jona Slade | Revd John Greaves | " James Honyman Esqre |
| John Taylor Esqre | Revd John Maxson | " Nicholas Easton Esqre |
| Mr Robert Strettell Jones | Revd Saml Winſor | " Nicholas Tillinghast Esqr |
| Azariah Dunham Esqre | Revd John Gano | " Darius Seſsions Esqre |
| Mr Edward Thurston Jr | Revd Morgan Edwards | " Joseph Harris Esqre |
| Mr Thomas Eyres | Revd Isaac Eaton | " Francis Willet Esqre |
| Mr Thomas Haszard | Revd Saml Stillman | William Logan Esqre |
| Mr Peleg Barker | Revd Saml Jones | " Daniel Jencks Esqre |
| | | George Hazard Esqre |
| | | ~~Mr~~ Nicholas Brown Esqre |
| | | " Jeremiah Niles Esqre |

or ſuch or so many of them as ſhall within twelve Months from the date hereof, accept of this trust and qualify themſelves as herein after directed, and their Succeſsors ſhall be for ever hereafter one Body Corporate & Politic in Fact and Name to be known in Law by the Name of Truſtees, and Fellows of the College or University in the English Colony of Rhode Island and Providence Plantations in New England in America the Truſtees and Fellows at any Time hereafter giving such more particular Name to the College in Honor of the greatest & most distinguished Benefactor or otherwise as they shall think proper which Name so given shall in all Acts, Inſtruments and Doings of said Body Politic be superadded to their corporate Name aforesaid, and become a part of their legal Appellation, by which it ſhall be for ever known and distinguished, and that by the ſame Name, they and their Succeſsors chosen by themselves as hereafter preſcribed ſhall and may have perpetual Succeſsion, and ſhall & may be Perſons able and capable in the Law to Sue, & to be Sued to Plead and

to be impleaded to Anſwer, and to be Answered unto, to defend and to be defended in all and singular Suits Cauſes Matters Actions and Doings of what kind soever & also to have take poſseſs purchase acquire or otherwise receive & hold Lands Tenements Hereditaments, Goods Chattles or other Estates of all which they may and ſhall stand and be seized notwithstanding any Miſnomer of the College or the Corporation hereof and by what ever Name or however imperfectly the ſame ſhall be described in Gift, Bequests and Aſsignments provided the true intent of the Aſsigner or Benefactor be evident. Also the ſame to grant demiſe alien lease use manage and improve according to the Tenor of the Donations, and to the Purposes Trusts & Uſes to which they ſhall be ſeized there of and full Liberty Power & Authority is hereby granted unto the said Truſtees & Fellows and their Succeſsors to found a College or Univerſity within this Colony for promoting the Liberal Arts and Universal Literature, and with the Monies Estates & Revenues of which they ſhall from time to time become legally Seized as aforesaid to Endow the ſame and erect the neceſsary Buildings & Edefices thereof on such Place within this Colony as they ſhall think Convenient: And Generally to regulate Order & Govern the ſame Appoint Officers & make Laws as herein after prescribed & hold use & enjoy all the Liberties Priviliges exemptions, Dignities & Immunities enjoy'd by any College or University whatever, And furthermore that the s$^{d}$ Trustees & fellows & their Succeſsors ſhall & may forever hereafter have a public Seal to use for all Causes matters & affairs whatever of them and their Succeſsors and the ſame Seal to alter Break & make anew from time to time at their Will and Pleasure which Seal ſhall always be deposited with the President or Senior fellow and furthermore by the Authority aforesaid it is hereby enacted Ordained & declared that it is now and at all Times hereafter ſhall continue to be the unalterable Conſtitution of this College or University that the Corporation thereof shall consist of two Branches Viz: that of the Trustees & that of the fellowſhip with distinct ſeperate & respective powers, and that the Number of the Trustees ſhall and may be thirty ~~five~~ six of which twenty two ſhall forever be Elected of the Denomination called Baptists or Antipedobaptis Five ſhall for ever be elected of the Denomination called Friends or Quakers, four ſhall for ever be elected of the Denomination called Congregationalists, & ~~four~~ Five ſhall

for ever be elected of the Denomination called Episcopalians & that the Succeſsion in this Branch ſhall be for ever chosen & filled up from the respective Denominations in this proportion and according to these Numbers which are hereby fixt & ſhall remain to perpetuity imutably the ſame and that the said

| | | |
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| Revd Iſaac Eaton | " Francis Willet Esqre | Hon'ble Stephen Hopkins Esq |
| Revd Sam Stillman | " Daniel Jencks Esqre | Hon'ble Joseph Wanton Jun Esq |
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| Mr Edward Thurston Junr | " Revd Saml Winſor | " Joseph Harris Esqre |
| Mr Peleg Barker | | |

or ſuch or so many of them as ſhall qualify themselves as aforesaid shall be and they are hereby declared and established the first and present Truſtees.— And that the Number of the Fellows inclusive of the President who ſhall always be a Fellow, ſhall and may be Twelve of which eight ſhall be for ever elected of the Denomination called Baptists or Antipadobaptists, and the rest indifferently of any or all Denominations and that the

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| Joshua Babcock Esq. | Revd Ezra Stiles | Rev. Edward Upham |
| Mr Thomas Eyres | Revd Saml Jones | Rev. Jeremiah Condy |
| Mr Thomas Haſzard | Revd James Manning | Rev. Marmaduke Brown |
| ~~Honble~~ | Wm Logan Esqre | Rev. Morgan Edwards |

or ſuch or so many of them as ſhall qualify themselves as aforesaid. ſhall be, and they are hereby declared the first and present Fellows and Fellowship to whom the President when hereafter elected who shall forever be of the Denomination called Baptist or Antepedo Baptist ſhall be Joined to compleat the Number. And furtnermore it is declared and ordained that the Succeſsion in both Branches ſhall at all times hereafter be filled up and ſupplied according to these Numbers and this established and invariable Proportion from the respective Denominations by the ſeperate Election of both Branches

of this Corporation which ſhall at all Times ſitt and Act by seperate and distinct Powers, and in general in order to the validity and conſummation of all Acts there ſhall be in the Exerciſe of their respective ſeperate and distinct Powers, the Joint concurrence of the Truſtees and the Fellows by their respective Majorities except in adjudging and conferring the Academical Degrees which ſhall for ever belong exclusively to the Fellowship as a Learned Faculty And further it is conſtituted that the Inſtruction and immediate Government of the College ſhall for ever be and Rest in the President and Fellows or Fellowship—And furthermore it is ordained that there ſhall be a General Meeting of the Corporation on the first Wednesday of September Annually within the College Edifice, and untill the ſame be Built at ſuch Place as they ſhall appoint to conſult Advise and transact the Affairs of the College or University at which or at any other time the Public Commencement may be held and Celebrated and that on any special Emergencies the President with any two of the Fellows or any Three of the Fellows exclusive of the Preſident may convoke and they are hereby empowered to convoke an Aſsembly of the Corporation on twenty Days Notice and that in all Meetings the Major Vote of those Present of the two Branches respectively ſhall be deemed their respective Majorities aforesaid, provided that not leſs than twelve of the Trustees & five of the Fellows be a Quorum of their Respective Branches—That the President or in his Absence the Senior Fellow present ſhall always be Moderator of the Fellows, that the Corporation at their Annual Meetings once in three Years or oftner in Case of Death or Removal ſhall and may chose a Chancellor of the Univerſity and Treaſurer from among the Truſtees, and a Secretary from among the Fellows, that the Nomination of the Chancellor ſhall be in the Trustees whose Office ſhall be only to Preside as a Moderator of the Truſtees and that in his Abſence the Truſtees ſhall choose a Moderator for the time being by the Name of Vice Chancellor and at any of their Meetings duly formed as aforesaid ſhall and may be elected a Truſtee or Fellow, or Truſtees or Fellows in the Room of those Nominated in this Charter who may refuse to accept or in the Room of those who may Die, Resign or be Removed— And furthermore it is enacted ordained and declared that this Corporation at any of their Meetings regularly convened as aforesaid ſhall and may Elect and appoint the President and Profeſsors of Languages and the

ſeveral Parts of Literature, and upon the demiſe of him or them or either of them their Reſignation or Removal from his or their Office for Misdemeanor Incapacity or Unfaithfulneſs, for which he or they are hereby declared removeable by this Corporation others to Elect and Appoint in their Room and Stead, & at ſuch meeting upon the Nomination of the Fellows to Elect and Appoint Tutors Stewards Butlers and all ſuch other Officers usually appointed in Colleges or Univerſities as they ſhall find neceſsary and think fitt to appoint for the promoting Liberal Education and the well ordering the Affairs of this College and them or any of them at their diſcretion to remove and ſubſtitute others in their Places, and in case any President Trustee or Fellow ſhall ſee Cause to change his Religious Denomination the Corporation is hereby empowered to declare his or their Place or Places Vacant, and may proceed to fill up it or them accordingly as before directed otherwise each Truſtee and Fellow not an officer of Inſtruction ſhall continue in his Office, during Life or untill Reſignation and further in Case either of the Religious denominations ſhou'd decline taking a Part in this Catholic Comprehenſive and liberal Inſtitution the Truſtees and Fellows ſhall and may compleat their Number by electing from their Respective Denominations always preſerving their Reſpective Proportions, herein before prescribed and determined, and all Elections ſhall be by Ballot, or written Suffrage, and that a Quorum of four Trustees & three Fellows may transact any Buſineſs excepting placing the College Edifice, Election of Truſtees, President, Fellows and Profeſsors that is to ſay so that their Acts ſhall be of Force and Validity untill the next Annual Meeting and no longer———

And it is further Enacted and Ordained by the Authority aforesaid that each Truſtee and Fellow as well those Nominated in this Charter or all that ſhall hereafter be duly Elected ſhall previous to their acting in a corporate Capacity take the Engagement of Allegiance prescribed by the Law of this Colony to His Majesty King George the third, His Heirs and Rightful Succeſsors to the Crown of Great Britain which Engagement ſhall be Administered to the present Trustees and Fellows by the Governor or Deputy Governor of this Colony and to them from time to time hereafter Elected by their Respective Moderators who are hereby empowered to Administer the ſame———

And ſtill the more clearly to define and Aſcertain the Respective Powers of the two Branches on making and enacting Laws, it is further Ordained and Declared that the Fellowſhip ſhall have Power and are hereby impowered from time to time and all times hereafter to make Enact and Publiſh all ſuch Laws Statutes Regulations and Ordinances with Penalties as to them ſhall ſeem meet for the ſucceſful Instruction and Government of said College or University not contrary to the Spirit Extent, true Meaning and Intention of the Acts of the British Parliament or the Laws of this Colony, and the ſame Laws, Statutes and Ordinances to Repeal, which Laws and the Repeals thereof, ſhall be laid before the Truſtees, and with their Approbation ſhall be of Force and Validity but not otherwise, and further the Truſtees and Fellows at their Meetings aforesaid ſhall aſcertain the Salaries of the Respective Officers and Order the Monies aſſeſsed on the Students, for Tuition Fines and Incidental Expences to be Collected by the Steward or ſuch other Officer as they ſhall appoint to Collect the ſame, and the ſame with their Revenues and other College Estates in the Hands of the Treaſurer to appropriate, in discharging Salaries and other College Debts and the College Accounts shall be Annually Audited and Adjusted in the Meeting of the Corporation and furthermore it is hereby enacted and declared that into this Liberal & Catholic Inſtitution ſhall never be admitted any Religious Tests but on the Contrary all the Members hereof ſhall for ever enjoy full free Absolute and uninterrupted Liberty of Conscience and that the Places of Profeſsors, Tutors and all other Officers the Preſident alone excepted ſhall be free and open for all Denominations of Protestants and that Youths of all Religious Denominations ſhall and may be freely admitted to the Equal Advantages Emoluments & Honors of the College or Univerſity and ſhall receive a like fair generous & equal Treatment, during their Residence therein, they conducting themſelves peaceably and conforming to the Laws and Statutes thereof: And that the Public teaching ſhall in general Respect the Sciences and that the Sectarian differences of opinions, ſhall not make any Part of the Public and Classical Inſtruction, altho' all Religious Controversies may be ſtudied freely examined and explained by the President Profeſsors and Tutors in a personal ſeperate and distinct manner, to the Youth of any or each Denomination and above all a constant Regard be paid to and effectual Care taken of the Morals

of the College and furthermore for the honour & encouragement of Literature we conſtitute and declare the Fellowship aforesaid a learned faculty and do hereby give grant unto and invest them & their Succeſsors with full Power & Authority, and they are hereby Authoriz'd & impowered by their President & in his Abſence by the Senior Fellow or one of the Fellows appointed by themſelves at the Anniversary Commencements or at any other times and at all Times hereafter to Admit to & Conferr any & all the Learned Degrees which can or ought to be given and conferred in any of the Colleges & Univerſities in America ~~Europe & particularly in the University in Cambridge & Edinbourgh in Great Britain)~~ or any ſuch other Degrees of Literary Honor as they ſhall devise upon any and all ſuch Candidates and Perſons as the President and Fellows or Fellowſhip ſhall Judge worthy of the Academical Honors, which Power of conferring Degrees is hereby restricted to the Learned Faculty, who ſhall or may Iſsue Diplomas or Certificates of ſuch Degrees or conferr Degrees by Diplomas and Authenticate them with the Public Seal of the Corporation, and the Hands of the President and Secretary, and of all the Profeſsors as Witneſses and deliver them to the Graduates as Honorable and Perpetual Testimonies, and furthermore for the greater Encouragement of this Seminary of Learning and that the ſame may be amply endow'd and enfranchised with the ſame priviledges Dignities and Immunities, enjoy'd by the American Colleges and European Univerſities, we do grant enact Ordain and Declare and it is hereby granted Enacted Ordained and Declared that the College Estate, the Estates Perſons and Families of the President and Profeſsors for the Time being lying and being within the Colony with the Perſons of the Tutors ~~Graduates~~ and Students during their Residence at the College ſhall be freed and exempted from all Taxes, ſerving on Juries and Menial Services, and that the Persons aforesaid ſhall be exempted from bearing Arms Impreſses and Military Services except in Case of an Invaſion And furthermore for eſtabliſhing the perpetuity of this Corporation and in caſe that at any time hereafter through oversight or otherwiſe through misapprehensions and mistaken Constructions of the Powers Liberties and Franchises herein contained any Laws should be enacted or any matters done and transacted by this Corporation contrary to the tenor of this Charter it is hereby enacted ordained and declared that all such Laws Acts and Doings shall be in themselves null and

void : yet nevertheleſs the same shall not in any Courts of Law or by the Genrle Aſsembly be deemed taken interpreted or adjudged into an avoidance, defeazance or forfeiture of this Charter but that the same shall be and remain unhurt inviolate and entire unto the said Corporation in perpetual Succeſsion, which Corporation may at all times and forever hereafter proceed & continue to Act ; and all their Acts conformable to the Powers, tenor, true intent and Meaning of the Charter shall be and remain in full force and validity, the nullity and avoidance of any such illegal Acts to the Contrary in any wiſe notwithstanding— and laſtly, We the Governor and Company aforesaid do for ourselves and our Succeſsors, forever hereby enact, Grant & confirm unto the said Truſtees and Fellows and to their Succeſsors that this Charter of Incorporation and every part thereof shall be good and available in all things in the Law according to our true Intent and meaning, and shall be construed, reputed & adjudged in all caſes moſt favorably on the behalf and for the beſt benefit and behoof of the said Truſtees and Fellows and their Succeſsors so as most effectually to answer the valuable Ends of this uſefull Inſtitution——

In full Teſtimony of which Grant and of all the Articles and matters therein contained, the said Governor & Company do hereby order that this Act shall be Signed by the Governor and Secretary and Sealed with the publick Seal of this Colony and Registerd in the Colonys Records and that the Same or an exemplification thereof shall be a sufficient Warrant to the said Corporation to hold, uſe and exerciſe all the Powers, Franchiſes and Immunities herein contained—

March 2d 1764

To the Houſe of Magts

Gent Resolvd that the aforewritten Paſs as an Act of this Aſsembly

Noted & paſsd Nemine Contradicente
& ordrd Josias Lyndon Clerk

In the Upper House
Read on the Third and concurred Nemine Contradicente
By Ord. Henry Ward Secr'y

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NOTE.—The above is in all respects an exact reproduction of the original Copy of the Charter in the office of the Secretary of the State of Rhode Island, in Providence.

On September 4th, 1782, the Corporation omitted from the engagement to be taken by new members the acknowledgment of allegiance to the British Crown, at the same time ordering broken the old seal of the College, which contained the busts of the king and queen of Great Britain. The present seal, of which this volume bears the imprint, was adopted on September 3, 1834.

In the spring of 1764, Rev. James Manning, a recent graduate of the College of New Jersey, opened a Latin School at Warren, Rhode Island, as a step preparatory to the work of college instruction. In September 1765, he was formally appointed by the Corporation, "President of the College and Professor of Languages and other branches of learning, with full power to act in these capacities at Warren or elsewhere." The first Commencement was held at Warren, in September, 1769. In the spring of 1770 the College was moved to Providence. The corner-stone of the first building, still standing as the venerable University Hall, was laid on the fourteenth of May in that year. During the Revolutionary War college studies were suspended, and the building was used by the American and French forces for barracks and a hospital. At its meeting on Thursday, September 6, 1804, in view of distinguished beneficence to the College on the part of Mr. Nicholas Brown the Corporation, under the power conveyed by the charter to change the title, voted, "That the College be known in all future time by the name of BROWN UNIVERSITY, in Providence, in the State of Rhode Island and Providence Plantations."

In 1863, the General Assembly of the State of Rhode Island passed an Act, subject to the consent of the Corporation, which was at once cordially given, limiting the exemption from taxation of the estates, persons and families of the President and Professors, to the "amount of ten thousand dollars for each of such officers, his estates, person and family included."

# CONDITIONS OF ADMISSION TO THE UNIVERSITY

## Admission to Special Courses

The instruction furnished by the University, from the highest graduate studies down to the most elementary branches that are taught, is open to all young men of good character who possess the maturity and seriousness of purpose to profit by it. While every student who can conveniently do so is for his own good urged to matriculate for some one of the various degrees, this is by no means necessary; and such as do not do it are no less welcome to the advantages of the University than are candidates for degrees. It is the policy of the University to encourage all faithful students who enter for short periods. For such, special pains are taken to arrange profitable courses of study covering a single term, two terms, a year, or more, according to circumstances. Each course of this kind must have the approval of the Faculty, and, except in special cases, will require attendance in the class-room for at least sixteen hours a week. The candidate must be familiar with the subjects preliminary to the studies which he wishes to pursue. He must pass creditable examinations in all his studies at the close of each term. Special students are subject to the same regulations and discipline as candidates for degrees. Idle and worthless students will not be permitted to abuse the facilities for special study as a means of preserving a merely nominal connection with the University. Upon later pages of this catalogue are exhibited a few groups of courses specially appropriate for students who intend to enter professional schools. While primarily meant to guide candidates for degrees, these minor curricula will enable students who for any reason find it impossible to earn an academic degree to give definite direction to their work in preparation for professional studies. On leaving the University, a special student who desires a formal certificate of his attainments may obtain it.

## Admission to Courses Leading to Degrees

Pupils from schools of known excellence, are admitted to the Freshman Class without examination, on the certificates—not the diplomas—of the Principals of these schools. Upon application by the Principal of any school from which pupils are received in this manner, the University furnishes blank forms for these certificates.

The regular examinations for admission to the Freshman Class will take place in Rhode Island Hall on Thursday, Friday, and Saturday, of Commencement Week, June 17, 18, 19, 1897, beginning at 9 o'clock A. M. on Thursday. Candidates must present themselves promptly at the appointed times.

The order of the examinations will be:

THURSDAY, June 17.

*Greek*, South Room, from 9 A. M. to 12.30 P. M.
*Latin*, North Room, from 2.30 to 6 P. M.
*History*, North Room, from 9 A. M. to 12.30 P. M.

FRIDAY, June 18.

*Mathematics*, South Room, from 8.15 A. M. to 12.30 P. M.
*French*, South Room, from 3 to 5 P. M.
*German*, North Room, from 3 to 5 P. M.

SATURDAY, June 19.

*English*, South Room, from 9 to 11 A. M.

There will be a second examination in each of the above branches, on Monday and Tuesday, September 13 and 14, 1897, as follows:

MONDAY, September 13.

*German*, South Room, from 8.30 to 10.30 A. M.
*French*, North Room, from 8.30 to 10.30 A. M.
*English*, South Room, from 11 A. M. to 1 P. M.
*Mathematics*, North Room, from 2 to 6 P. M.

TUESDAY, September 14.

*Latin*, North Room, from 8 to 10.30 A. M.
*Greek*, South Room, from 11 A. M. to 1.30 P. M.
*History*, North Room, 11 A. M. to 1.30 P. M.

If desired, examinations will be appointed in cities remote from Providence. Correspondence on this subject should be addressed to the Registrar of the University.

Qualified members of the Freshman Class are matriculated at the beginning of the second term. Till matriculation, all candidates for degrees, however admitted, are regarded as on probation.

For admission to ADVANCED STANDING, unless coming from other colleges of high rank, candidates are examined in the studies already pursued by the respective classes which they propose to enter. These examinations for 1897 will be held on Monday and Tuesday, September 13 and 14. Students must report at the Registrar's Office at 9 A. M. on Monday, September 13. A student from another college must present a certificate of his standing in the college which he has left and of regular dismission from it.

## I. ENTRANCE EXAMINATIONS TO BE PASSED BY EVERY CANDIDATE FOR A DEGREE

Unless admitted by certificate, every undergraduate candidate for a degree from Brown University, whether of Bachelor of Arts, Bachelor of Philosophy, Bachelor of Science, Civil Engineer or Mechanical Engineer, is, before entering College, required to pass examination upon a certain amount of Mathematics, a certain amount of English, and a certain amount either of French or of German.

Of candidates for the degree of Civil Engineer or for that of Mechanical Engineer, no other entrance examinations are required.

The entrance examinations which all candidates for degrees must pass are the following:

### A. MATHEMATICS

1. Algebra, through Equations of the Second Degree, including Arithmetical and Geometrical Progression and the use of the Binomial Formula.
2. Plane Geometry.

### B. ENGLISH

The examination in English consists of two parts, one to test the pupils' general reading, the other to bring out the results of their more careful study and practice in this branch. The entire examination occupies not less than two hours.

*Part 1. Reading and Practice.* This part of the examination for 1897 will be upon the following works: Shakspere's As You Like It, Defoe's Journal of the Plague Year, Irving's Tales of a Traveler,

Hawthorne's Twice Told Tales, Longfellow's Evangeline, and George Eliot's Silas Marner.

The candidate must exhibit a good general knowledge of the subject-matter of each work, and answer simple questions on the lives of the authors. The usual form of examination is the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number, perhaps ten or fifteen, named in the examination paper. The treatment of these topics is to test his power of clear and accurate expression. In place of a part of this exercise, the candidate may, under special circumstances, be allowed to present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading.

In 1898 the books for this portion of the examination will be : Milton's Paradise Lost, books i and ii, Pope's Iliad, books i and xxii, The Sir Roger De Coverley Papers in the Spectator, Goldsmith's Vicar of Wakefield, Coleridge's Ancient Mariner, Southey's Life of Nelson, Carlyle's Essay on Burns, Lowell's Vision of Sir Launfal, and Hawthorne's House of the Seven Gables.

In 1899: Dryden's Palamon and Arcite, Pope's Iliad, books i, vi, xxii and xxiv, The Sir Roger De Coverly Papers in the Spectator, Goldsmith's Vicar of Wakefield, Coleridge's Ancient Mariner, De Quincey's Flight of a Tartar Tribe, Cooper's Last of the Mohicans, Lowell's Vision of Sir Launfal, and Hawthorne's House of the Seven Gables.

In 1900: Dryden's Palamon and Arcite, Pope's Iliad, books i, vi, xxii, xxiv, The Sir Roger De Coverley Papers in the Spectator, Goldsmith's Vicar of Wakefield, Scott's Ivanhoe, De Quincey's Flight of a Tartar Tribe, Cooper's Last of the Mohicans, Tennyson's Princess, and Lowell's Vision of Sir Launfal.

*Part 2. Study and Practice.* This section of the examination requires a more careful study of each of the works named. It involves subject-matter, form, and structure, and also, more particularly than Part 1, tests the candidate's ability to express his knowledge with clearness and accuracy.

In 1897 this portion of the examination will be upon the following works: Shakspere's Merchant of Venice, Burke's Speech on Conciliation with America, Scott's Marmion, and Macaulay's Life of Samuel Johnson.

In 1898: Shakspere's Macbeth, Burke's Speech on Conciliation with America, De Quincey's Flight of a Tartar Tribe, and Tennyson's Princess.

In 1899: Shakspere's Macbeth, Milton's Paradise Lost, books i and ii, Burke's Speech on Conciliation with America, and Carlyle's Essay on Burns.

In 1900: Shakspere's Macbeth, Milton's Paradise Lost, books i and ii, Burke's Speech on Conciliation with America, Macaulay's Essays on Milton and Addison.

NOTE: Reading parallel and subsidiary to all the above should be encouraged; and students are recommended to commit to memory as much English poetry as possible. The essentials of grammar must not be neglected, and no candidate will be accepted in English whose work is obviously defective in spelling, punctuation, division into paragraphs, or idiom.

### C. FRENCH OR GERMAN

Each candidate for any degree whatever must pass examination either upon a certain amount of French or upon a certain amount of German, but a candidate may present the one or the other of these languages, according to his wish. Students who present German for entrance must continue German during the Freshman year, and must take French in their Sophomore year.

For candidates who offer FRENCH the requirements are as follows:

1. Proficiency in elementary French grammar, implying, especially, familiarity with the following topics: inflection of nouns and adjectives in gender and number; the pronominal adjectives; the use of pronouns, especially the forms and positions of personal pronouns; the partitive constructions; the inflection of the regular verbs and of the more usual irregular verbs, such as *dire*, *faire*, and the classes represented by *ouvrir*, *sentir*, *venir*, *paraître*, *conduire* and *craindre*.

The mention of these topics is not proposed as restrictive, but is meant rather to emphasize the importance of a thorough grounding of the pupil in those elements on which future good work necessarily depends. Mastery of Whitney's Brief French Grammar will be regarded as sufficient.

2. Ability to translate simple prose at sight.

It is believed that the required facility can be gained by reading, concurrently with the grammar work, from two hundred to four hundred duodecimo pages, of at least three dissimilar works: but care should be taken not to read works assigned in the college courses.

3. Ability to pronounce French and to recognize French words and simple phrases when uttered.

It is recommended that from the beginning careful attention be given to the fluent and intelligent pronunciation of the French texts used in the class-room.

For candidates who offer GERMAN the requirements are as follows:

1. Proficiency in elementary German grammar, implying, especially, familiarity with the following topics: declension of such nouns as are readily classified and of adjectives and pronouns; con-

jugation of weak and of the more usual strong verbs; the commoner prepositions; the simpler uses of the modal auxiliaries; the simpler rules of syntax and of word order.

The mention of these topics is not proposed as restrictive, but is meant rather to emphasize the importance of a thorough grounding of the pupil in those elements on which future good work depends. Mastery of Whitney's Brief German Grammar will be regarded as sufficient.

2. Ability to translate a passage of simple prose at sight, a vocabulary of the less usual words being furnished.

It is believed that the required facility can be gained by reading, concurrently with the grammar work, two hundred duodecimo pages of easy German, chiefly narrative prose, with a few lyric poems; but care should be taken not to read the works assigned in the college courses.

3. Ability to pronounce German and to recognize German words and simple phrases when uttered.

It is recommended that from the beginning careful attention be given to the fluent and intelligent pronunciation of the German texts used in the class-room.

## II. Additional Examinations for Candidates for the Degree of Bachelor of Arts

Besides the foregoing examinations in Mathematics, English, and French or German, candidates for admission to the courses leading to this degree are examined in the following subjects. Real equivalents will be received for any of the works mentioned.

### A. Greek

1. Authors: Xenophon's Anabasis entire, or four books of the Anabasis and three of Homer, regard being had not only to language but to subject-matter as well. Two books of the Hellenica may be offered in place of a like part of the Anabasis; and preparation in Homer may be in either the Iliad or the Odyssey.

2. Grammar: A familiar knowledge of inflection, word-formation and ordinary syntax.

3. Composition: The first twenty-five exercises of Jones's Composition, or Allinson's Composition as far as Part III, or Collar and Daniell's entire.

4. History: The general history of Greece to the death of Alexander.

Candidates are expected to be able to translate at sight simple Attic prose, unusual words being defined, and to write in Greek simple connected narrative based upon the Anabasis or the Hellenica.

### B. Latin

1. Caesar, Gallic War, books i-iv, or books i-iii and Sallust's Catiline, with questions on the subject-matter and on grammar.

2. Ovid, twenty-five hundred lines.

3. Cicero, the orations against Catiline and the oration for Archias, with questions as on Caesar.

4. Vergil, Aeneid, books i-vi, or Aeneid, books i-v and the Eclogues, with questions on the subject-matter and on prosody.

5. Translation, at sight, of ordinary passages from Caesar, Cicero's orations, Vergil's Aeneid and Ovid's Metamorphoses, with questions on grammar, prosody, history and antiquities, suggested by the passages assigned.

6. Translation into Latin of simple English sentences.

7. Translation into Latin of a continuous passage of English narrative, prepared from some portion of the prescribed prose.

8. Outline of Roman geography, and of Roman history to the end of the reign of Marcus Aurelius.

It is recommended that pupils be accustomed, from the beginning of their preparatory course, to translate into Latin, both orally and in writing, passages prepared by the teacher on the basis of the prose authors read.

In pronouncing Latin, *ā* should be pronounced as in *father*, *ă* as the *a* in *Cuba*; *ē* as in *prey*, *ĕ* as in *men*; *ī* as in *machine*, *ĭ* as in *cigar*; *ō* as in *old*, *ŏ* as in *obey*; *ū* as in *rule*, *ŭ* as in *full*; *j* as *y* in *yard*; *c* always as *k* in *king*; *g* always as in *get*.

Instructors in preparatory schools are urged to insist upon the use of simple and idiomatic English in the translation of Greek and Latin.

### Preliminary Examinations in the Classics

In the studies named below, candidates may be examined one year before the time at which they intend to apply for admission to the Freshman Class. These examinations will occur, in 1897, on Thursday, June 17, *and then only*. They will be held in the South Room of Rhode Island Hall, and in the following order:

*Greek*, from 9 A. M. to 12 : 30 P. M.
*Latin*, from 2 : 30 to 5 : 30 P. M.

The subjects will be: In Greek.—1. Greek Grammar; 2. three books of Xenophon's Anabasis. In Latin.—1. Latin Grammar; 2. Caesar, or Caesar and Sallust, as above; 3. translation into Latin of simple sentences; 4. Ovid, or Cicero, or Vergil, as above.

## III. Additional Examinations for Candidates for the Degree of Bachelor of Philosophy

Besides the examinations in Mathematics, English, and French or German, specified on pages 36-39, candidates for the degree of Bachelor of Philosophy are examined as follows:

### A. Latin

1. Caesar, Gallic War, books i-iv, or books i-iii and Sallust's Catiline, with questions on the subject-matter and on grammar.
2. Ovid, twenty-five hundred lines.
3. Cicero, the orations against Catiline and the oration for Archias, with questions as on Caesar.
4. Vergil, Aeneid, books i-vi, or books i-v and the Eclogues, with questions on the subject-matter and on prosody.
5. Translation, at sight, of ordinary passages from Caesar, Cicero's orations, Vergil's Aeneid and Ovid's Metamorphoses, with questions on grammar, prosody, history and antiquities, suggested by the passages assigned.
6. Translation into Latin of simple English sentences.
7. Translation into Latin of a continuous passage of English narrative, prepared from some portion of the prescribed prose.
8. Outlines of Roman geography.

It is recommended that pupils be accustomed, from the beginning of their preparatory course, to translate into Latin, both orally and in writing, passages prepared by the teacher on the basis of the prose authors read.

In pronouncing Latin, *ā* should be pronounced as in *father*, *ă* as the *a* in *Cuba*; *ē* as in *prey*, *ĕ* as in *men*; *ī* as in *machine*, *i* as in *cigar*; *ō* as in *old*, *ŏ* as in *obey*; *ū* as in *rule*, *ŭ* as in *full*; *j* as *y* in *yard*; *c* always as *k* in *king*; *g* always as in *get*.

Instructors in preparatory schools are urged to insist upon the use of simple and idiomatic English in the translation of Greek and Latin.

Instead of the above requirement in Latin either one of the three substitutes below described is accepted:

*Substitute 1. Minor Requirement in Latin.* For pupils nineteen years of age or over, who offer proof of attainments in general subjects such as a diligent and competent student would derive from two years full attendance at a good high school or academy, the above requirement in Latin is reduced to five books of Caesar or its equivalent in Cicero, Vergil or other standard authors. Students offering only this smaller amount of Latin cannot, however, pursue any of the Latin courses in college.

*Substitute 2. Greek.* Instead of the Latin specified above, whether the full or the minor requirement, candidates for the degree of Bachelor of Philosophy may offer Greek. Candidates presenting Greek as a preparatory study will be examined in all the Greek subjects specified on page 39. Students fulfilling this requirement usually wish to pursue Greek in College and are permitted to do so.

*Substitute 3. German or French.* If they prefer, students may present both the French and the German mentioned on pages 38 and 39, in which case no Latin examination whatever is required of them.

### B. History

Either the general history of Greece to the death of Alexander, with Roman history to the end of the reign of Marcus Aurelius; or the general history of England and of the United States.

## IV. Additional Examinations for Candidates for the Degree of Bachelor of Science

Besides the examinations in Mathematics, English, and French or German, specified on pages 36-39, candidates for the Degree of Bachelor of Science are examined in the following:

### A. Mathematics

1. Solid and Spherical Geometry. 2. Plane Trigonometry, with the use of logarithmic and trigonometric tables.

### B. Latin

Five books of Caesar, or the equivalent thereof in Cicero or Vergil. *Option:* If the candidate prefer he may present *both* the French and the German specified on pages 38 and 39, in which case no examination in Latin is required.

### C. History

Either the general history of Greece to the death of Alexander, with Roman history to the end of the reign of Marcus Aurelius; or the general history of England and of the United States.

## V. Examinations for Candidates for the Degree of Civil Engineer or Mechanical Engineer

Of candidates for either of these degrees are required only the examinations in Mathematics, English, and French or German, specified on pages 36-39.

# THE COURSES OF INSTRUCTION

Instruction for graduate students is treated by itself in a later section. Full information concerning it may be had by application to the Registrar. The studies for undergraduates are partly required and partly elective. In the Freshman year the studies are nearly all required, the main exception being that candidates for the degrees of Bachelor of Philosophy and Bachelor of Science have a choice of courses, according as they do or do not wish to pursue an ancient language. The required studies of the Freshman year are selected for their disciplinary value, that the student may the more profitably pursue those of the subsequent years, whatever they may be. Candidates for the degrees of Bachelor of Arts and Bachelor of Philosophy are, during the last three years, allowed large liberty in the choice of studies. Candidates for the degree of Bachelor of Science are allowed less freedom of election, in order that they may thoroughly master the branches necessary to a proper equipment in science; while to candidates for the strictly professional degrees of Civil Engineer and Mechanical Engineer, of course no option (with the single exception noted on page 48) can be allowed.

The elective studies, which are very numerous, are so placed in the curriculum as to give all the freedom of choice which the necessary limitations of the schedule of lectures admit. In arranging this schedule a number of parallel courses, each unitary and progressive and extending through the last three years, are made available. Every student is advised, in selecting his studies, to adopt, in the main, one of these courses; and is strongly warned against the danger of choosing his studies at hap-hazard, as chance or caprice may direct.

Students who wish to give their work definiteness and unity will find helpful suggestions in the lists, set forth in later pages of this catalogue, of "Courses Preparatory to Professional Studies."

# THE COURSES OF INSTRUCTION ARRANGED ACCORDING TO YEARS AND TERMS

## I. Prescribed Courses

### A. FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF ARTS

#### Freshman Year

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Greek 1 | Greek 2 | Greek 3 |
| Latin 1 | Latin 2 | Latin 3 |
| *French 1 or German 4 | French 2 or German 6 | French 3 or German 8 |
| Mathematics 1 | Mathematics 3 | Mathematics 2 |
| Military Drill | Military Drill | Military Drill |
| | Gymnasium | |

#### Sophomore Year

| | | |
|---|---|---|
| Rhetoric 2 or | Rhetoric 3 or | Rhetoric 4 or |
| Rhetoric 2 and 19 | Rhetoric 3 and 20 | Rhetoric 4 and 21 |
| German 1 or French A | German 2 or French B | German 3 or French C |
| Electives, nine hours | Gymnasium | Electives, nine hours |
| | Electives, nine hours | |

#### Junior Year

| | | |
|---|---|---|
| Rhetoric 33 | Rhetoric 34 | Rhetoric 35 |
| History 1 | History 2 | Electives, fifteen hours |
| Electives, twelve hours | Gymnasium | |
| | Electives, twelve hours | |

#### Senior Year

With the exception of Gymnasium practice the work of the Senior year consists entirely of elective studies, fifteen hours per week.

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*Students who pursue French 1, 2, 3 during Freshman year must take German 1, 2, 3 during Sophomore year. Those who pursue German 4, 5, 6 during Freshman year must take French during Sophomore year. This note applies also to the courses for all other degrees.

## B. FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF PHILOSOPHY

### Freshman Year

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Mathematics 1 | Mathematics 3 | Mathematics 2 |
| †French 1 or German 4 | French 2 or German 6 | French 3 or German 8 |
| Military Drill | Military Drill | Military Drill |
| | Gymnasium | |

### NOTE

Beginning with September, 1897, candidates for the degree of Bachelor of Philosophy or Bachelor of Science, will, during the Freshman year, be required to take the following studies:

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Mathematics 1 | Mathematics 3 | Mathematics 2 |
| French 1 or German 4 | French 2 or German 6 | French 3 or German 8 |
| Rhetoric 2, 4 hours | Rhetoric 3, 4 hours | Rhetoric 4, 4 hours |
| or | or | or |
| { Rhetoric 2, 3 hours<br>{ Rhetoric 19 | { Rhetoric 3, 3 hours<br>{ Rhetoric 20 | { Rhetoric 4, 3 hours<br>{ Rhetoric 21 |
| Military Drill | Military Drill | Military Drill |
| | Gymnasium | |

one elective from groups a, b, e, f, g. See pages 45, 46.

hours

### Senior Year

With the exception of Gymnasium practice the work of the Senior year consists entirely of elective studies, fifteen hours per week.

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*Students who carry group (*c*) or group (*d*) during Freshman year will carry an additional elective during Sophomore year. Freshmen whose entrance work is complete may carry Drawing 2, 3, 4 as an extra study.

†See note, p. 44.

# THE COURSES OF INSTRUCTION ARRANGED ACCORDING TO YEARS AND TERMS

## I. Prescribed Courses

### A. FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF ARTS

#### Senior Year

With the exception of Gymnasium practice the work of the Senior year consists entirely of elective studies, fifteen hours per week.

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*Students who pursue French 1, 2, 3 during Freshman year must take German 1, 2, 3 during Sophomore year. Those who pursue German 4, 5, 6 during Freshman year must take French during Sophomore year. This note applies also to the courses for all other degrees.

## B. FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF PHILOSOPHY

### Freshman Year

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Mathematics 1 | Mathematics 3 | Mathematics 2 |
| †French 1 or German 4 | French 2 or German 6 | French 3 or German 8 |
| Military Drill | Military Drill | Military Drill |
| | Gymnasium | |

and two of the following groups :

| | | | |
|---|---|---|---|
| (*a*) | Botany 1 | Botany 2 | Botany 3 |
| (*b*) | Drawing 1 | Drawing 5 | Drawing 6 |
| (*c*) | Rhetoric 2, 4 hrs. | Rhetoric 3, 4 hours | Rhetoric 4, 4 hours |
| (*d*) | Rhetoric 2, 3 hrs.<br>Rhetoric 19 | Rhetoric 3, 3 hours<br>Rhetoric 20 | Rhetoric 4, 3 hours<br>Rhetoric 21 |
| (*e*) | Greek 1 | Greek 2 | Greek 3 |
| (*f*) | Latin 1 | Latin 2 | Latin 3 |
| (*g*) | Comp. Anat. 15 | Comp. Anat. 1 | Comp. Anat. 2 |

### Sophomore Year

| | | |
|---|---|---|
| Rhetoric 2 or | Rhetoric 3 or | Rhetoric 4 or |
| Rhetoric 2 and 19 | Rhetoric 3 and 20 | Rhetoric 4 and 21 |
| German 1 or French A | German 2 or French B | German 3 or French C |
| Electives, nine hours* | Gymnasium | Electives, nine hours* |
| | Electives, nine hours* | |

### Junior Year

| | | |
|---|---|---|
| Rhetoric 33 | Rhetoric 34 | Rhetoric 35 |
| History 1 | History 2 | Electives, fifteen hours |
| Electives, twelve hours | Gymnasium | |
| | Electives, twelve hours | |

### Senior Year

With the exception of Gymnasium practice the work of the Senior year consists entirely of elective studies, fifteen hours per week.

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*Students who carry group (*c*) or group (*d*) during Freshman year will carry an additional elective during Sophomore year. Freshmen whose entrance work is complete may carry Drawing 2, 3, 4 as an extra study.

†See note, p. 44.

## C. FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE

### Freshman Year

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Mathematics 4, 5 | Mathematics 6 | Mathematics 7 |
| Mathematics 9 | Mathematics 10 | Mathematics 12 |
| †French 1 or German 4 | French 2 or German 6 | French 3 or German 8 |
| Military Drill | Military Drill | Military Drill |
| | Gymnasium | |

And two of the following groups:

| | | | |
|---|---|---|---|
| *(a)* | Botany 1 | Botany 2 | Botany 3 |
| *(b)* | Drawing 1 | Drawing 5 | Drawing 6 |
| *(c)* | Rhetoric 2, 4 hrs. | Rhetoric 3, 4 hrs. | Rhetoric 4, 4 hrs. |
| *(d)* | Rhetoric 2, 3 hrs.<br>Rhetoric 19 | Rhetoric 3, 3 hrs.<br>Rhetoric 20 | Rhetoric 4, 3 hrs.<br>Rhetoric 21 |
| *(e)* | Greek 1 | Greek 2 | Greek 3 |
| *(f)* | Latin 1 | Latin 2 | Latin 3 |
| *(g)* | Comp. Anat. 15 | Comp. Anat. 1 | Comp. Anat. 2 |

### Sophomore Year

| | | |
|---|---|---|
| Rhetoric 2 or | Rhetoric 3 or | Rhetoric 4 or |
| Rhetoric 2 and 19 | Rhetoric 3 and 20 | Rhetoric 4 and 21 |
| German 1 or French A | German 2 or French B | German 3 or French C |
| Physics 1 | Physics 2 | Physics 4 |
| Chemistry 1 | Chemistry 2 | Chemistry 3 |
| Electives, three hours* | Gymnasium | Electives, three hours* |
| | Electives, three hours* | |

### Junior Year

| | | |
|---|---|---|
| Rhetoric 33 | Rhetoric 34 | Rhetoric 35 |
| History 1 | History 2 | Electives, fifteen hours |
| Electives, twelve hours | Gymnasium | |
| | Electives, twelve hours | |

With the exception of Gymnasium practice, the work of the Senior year consists of fifteen hours of electives per week, chosen from the list on page 53.

*Students who carry group (*c*) or group (*d*) during Freshman year will carry an additional elective during Sophomore year.

†See note p. 44.

## D. FOR CANDIDATES FOR THE DEGREE OF CIVIL ENGINEER

### Freshman Year

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Mathematics 1 | Mathematics 3 | Mathematics 2 |
| †French 1 or German 4 | French 2 or German 6 | French 3 or German 8 |
| Drawing 2 | Drawing 3 | Drawing 4 |
| Drawing 1 | Drawing 5 | Drawing 6 |
| Drawing 29 | Drawing 30 | Drawing 31 |
| Rhetoric 2 | Rhetoric 3 | Rhetoric 4 |
| Military Drill | Military Drill | Military Drill |
| | Gymnasium | |

### Sophomore Year

| | | |
|---|---|---|
| Civil Engineering 1 | Civil Engineering 2 | Civil Engineering 3 |
| Drawing 7 | Civil Engineering 4 | Civil Engineering 8 |
| Mathematics 9 | Mathematics 10 | Mathematics 12 |
| German 1 or French A | German 2 or French B | German 3 or French C |
| Physics 1 | Physics 2 | Physics 4 |
| Chemistry 1 | Chemistry 2 | Chemistry 3 |
| | Gymnasium | |

### Junior Year

| | | |
|---|---|---|
| Civil Engineering 5 | Civil Engineering 6 | Civil Engineering 7 |
| Mathematics 13 | Mathematics 14 | Civil Engineering 12 |
| Mechanics 3 | Mechanics 4 | Mechanics 6 |
| Astronomy 1 | Astronomy 3 | Astronomy 4 |
| Physics 5 | Physics 9 | Physics 10 |
| | Civil Engineering 16 | Philosophy 19 |
| | Gymnasium | |

### Senior Year

| | | |
|---|---|---|
| Civil Engineering 19 | Civil Engineering 10 | Civil Engineering 11 |
| Civil Engineering 13 | Civil Engineering 14 | Civil Engineering 18 |
| Mechanics 7 | Civil Engineering 15 | Civil Engineering 17 |
| Geology 1 | Civil Engineering 20 | Civil Engineering 21 |
| Thesis | Mechanics 8 | Geology 3 |
| | Thesis | Thesis |
| | Gymnasium | |

†See note p. 44.

## E. FOR CANDIDATES FOR THE DEGREE OF MECHANICAL ENGINEER

### Freshman Year

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Mathematics 1 | Mathematics 3 | Mathematics 2 |
| Drawing 1 | Drawing 5 | Drawing 6 |
| Drawing 2 | Drawing 3 | Drawing 4 |
| †French 1 or German 4 | French 2 or German 6 | French 3 or German 8 |
| Rhetoric 2 | Rhetoric 3 | Rhetoric 4 |
| Military Drill | Military Drill | Military Drill |
| | Gymnasium | |

### Sophomore Year

| | | |
|---|---|---|
| Mathematics 9 | Mathematics 10 | Mathematics 12 |
| Drawing 7 | Drawing 8 | Drawing 9 |
| Mech. Engineering 1 | Mech. Engineering 10 | Mech. Engineering 11 |
| Chemistry 1 | Chemistry 2 | Chemistry 3 |
| Physics 1 | Physics 2 | Physics 4 |
| German 1 or French A | German 2 or French B | German 3 or French C |
| | Gymnasium | |

### Junior Year

| | | |
|---|---|---|
| Philosophy 2 | Philosophy 3 | Philosophy 19 |
| Mathematics 13 | Mathematics 14 | Mech. Engineering 9 |
| Mechanics 3 | Mechanics 4 | Mechanics 6 |
| Drawing 10 | Drawing 11 | Drawing 12 |
| Mech. Engineering 12 | Mech. Engineering 13 | Mech. Engineering 14 |
| Physics 5 | Physics 9 | Physics 10 |
| | Gymnasium | |

### Senior Year

| | | |
|---|---|---|
| Mechanics 7 | Mechanics 8 | Thesis Work |
| Mech. Engineering 3 | Mech. Engineering 4 | Mech. Engineering 5 |
| Mech. Engineering 6 | Mech. Engineering 7 | Mech. Engineering 8 |
| Drawing 27* | Drawing 28* | Original Design |
| Mech. Engineering 1 | Mech. Engineering 16 | |
| | Gymnasium | |

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* Students desiring to pursue Electrical Work may, if they so elect, substitute certain courses in Physics for Drawing 27 and 28.

†See note p. 44.

# II. Elective Courses

## A. For Candidates for the Degree of Bachelor of Arts or Bachelor of Philosophy

*First Term*

Philosophy 36 Jr.
" 2 Jr.
" 20 Sr.
" 29 Sr.
" 8 Sr.
" 11* Sr.
" 5a Sr.
Pedagogy 1 Sr.
Greek 6 So.
" 7* Jr. Sr.
" 10* Jr. Sr.
" 13* Jr. Sr.
" 16 Jr. Sr.
" 22* So. Jr. Sr.
" 25* Sr.
" 28 Jr. Sr.
" 37 Jr. Sr.
" 40 Sr.
" 43 So. Jr. Sr.
Latin 4 So.
" 7* Jr. Sr.
" 10* Jr. Sr.
" 11 Jr. Sr.
" 16 Jr. Sr.
" 19* Sr.
" 22 Sr.
Philology 1 Jr. Sr.
" 6 Jr. Sr.
History of Art 1 Jr. Sr.
" " 7 Sr.
Architecture 6 Jr. Sr.
" 9 Jr. Sr.
" 12 Sr.
" 29 Sr.
Music 1 So. Jr. Sr.
" 4 Jr. Sr.
" 7 Sr.
" 10 Jr. Sr.
Hebrew 1 Jr. Sr.
" 4 Jr. Sr.
" 5* Jr. Sr.
" 8 Jr. Sr.
Assyrian 1 Sr.
Syriac 1 Jr. Sr.
New Testament 1* Jr. Sr.
New Testament 5 Jr. Sr.
Rhetoric 16 Jr. Sr.
" 27 Sr.
" 5 Sr.
" 19 So.
" 36 Jr.
English 10 So. Jr. Sr.
" 13* Jr. Sr.
" 24 Jr. Sr.
" 27 So. Jr. Sr.
" 1 So. Jr. Sr.
" 4 Jr. Sr.
" 34 Jr. Sr.
" 55 Sr.
" 56 Jr. Sr.
" 31 Jr. Sr.
" 43 Jr. Sr.
" 46* Jr. Sr.
" 50 Jr. Sr.
" 18* Jr. Sr.
" 16 Jr. Sr.
History 4 Jr. Sr.
" 7 Sr.
Social Science 1 Jr. Sr.
" " 5 Sr.
Political Science 1 Jr. Sr.
Political Science 5 Sr.
Elementary Law 1 Jr. Sr.
Elementary Law 4* Jr. Sr.
Political Economy 1 Jr. Sr.
Political Economy 4 Sr.
Political Economy 7 Sr.
German 4 Jr. Sr.
" 46 Jr. Sr.
" 16 Jr. Sr.
German 40* So. Jr. Sr.
" 10 Jr. Sr.
" 13* Sr.
" 37 Sr.
French 4 So. Jr. Sr.
" 13 So. Jr. Sr.
" 7 Jr. Sr.
" 10 Sr.
Italian 1 Jr. Sr.
" 7* Jr. Sr.
" 10 Sr.
Spanish 1 Jr. Sr.
Mathematics 9 So. Jr. Sr.
Mathematics 13 So. Jr. Sr.
Mathematics 15 Jr. Sr.
" 18* Sr.
" 21 Sr.
Drawing 16 So. Jr. Sr.
" 7 So. Jr. Sr.
" 10 Jr. Sr.
" 27 Sr.
" 15 So. Jr. Sr.
" 13 So. Jr. Sr.
" 2 So. Jr. Sr.
" 21 So. Jr. Sr.
" 32 Jr. Sr.
Civil Engineering 1 So. Jr. Sr.
Civil Engineering 5 Jr. Sr.
Civil Engineering 13 Jr. Sr.
Civil Engineering 19 Sr.
Mechanical Engineering 1 So. Jr. Sr.
Mechanical Engineering 3 Sr.
Mechanical Engineering 6 Sr.
Mechanical Engineering 12 So. Jr. Sr.

*Omitted in 1896-97.

"So." means that the study opposite which it is placed is open to election by members of the Sophomore Class subject to the conditions prescribed for each course. In the same way "Jr." and "Sr." refer to Juniors and Seniors.

*First Term—Continued*

Mechanical Engineering 15 So. Jr. Sr.
Mechanical Engineering 17 So. Jr. Sr.
Mechanical Engineering 18 So. Jr. Sr.
Mechanics 3 So. Jr. Sr.
" 7 Jr. Sr.
Chemistry 1 So.
Chemistry 4 Jr.
" 7 Sr.
Chemistry 10 Sr.
Physics 1 So. Jr.
" 5 Jr. Sr.
" 11 Sr.
" 13 Sr.
" 17 Sr.
Physics 26* Sr.
Astronomy 1 Jr. Sr.
Astronomy 11 Sr.
Geology 1 Sr.
Comparative Anatomy 15 So. Jr. Sr.
Comparative Anatomy 19 Sr.
Comparative Anatomy 3 So. Jr. Sr.
Comparative Anatomy 16 Jr. Sr.
Botany 1 So. Jr. Sr.
Military Science 4 So. Jr. Sr.

*Second Term*

Philosophy 37 Jr.
" 3 Jr.
" 21 Sr.
" 30 Sr.
" 9 Sr.
" 12* Sr.
" 5b Sr.
" 17* Sr.
" 26 Sr.
Pedagogy 2 Sr.
Greek 4 So.
" 8* Jr. Sr.
" 11 Jr. Sr.
" 14 Jr. Sr.
" 17* Jr. Sr.
" 23* So. Jr. Sr.
" 26* Sr.
" 29 Jr. Sr.
" 38 Jr. Sr.
" 41 Sr.
Latin 5 So.
" 8* Jr. Sr.
" 14* Jr. Sr.
" 12 Jr. Sr.
" 17 Jr. Sr.
" 20* Sr.
" 23 Sr.
Philology 2 Jr. Sr.
" 4 Jr. Sr.
History of Art 4 Jr. Sr.
" " 9 Sr.
Architecture 1 So. Jr. Sr.
Architecture 7 Jr. Sr.
" 10 Jr. Sr.
" 13 Sr.
" 30 Sr.
Music 2 So. Jr. Sr.
" 5 Jr. Sr.
" 8 Sr.
" 11 Jr. Sr.
Hebrew 2 Jr. Sr.
" 6* Jr. Sr.
New Testament 2* Jr. Sr.
Rhetoric 17 Jr. Sr.
" 28 Sr.
" 6 Sr.
" 20 So.
" 37 Jr.
English 11 So. Jr. Sr.
" 14* Jr. Sr.
" 25 Jr. Sr.
" 28 So. Jr. Sr.
" 2 So. Jr. Sr.
" 5 Jr. Sr.
" 35 Jr. Sr.
" 54 Sr.
" 57 Jr. Sr.
" 32 Jr. Sr.
" 44 Jr. Sr.
" 47* Jr. Sr.
" 51 Jr. Sr.
" 19* Jr. Sr.
" 17 Jr. Sr.
History 5 Jr. Sr.
History 8 Sr.
Social Science 2 Jr. Sr.
" " 4 Jr. Sr.
Political Science 3 Jr. Sr.
Political Science 4 Jr. Sr.
Political Science 6 Jr. Sr.
Elementary Law 2 Jr. Sr.
Elementary Law 5* Jr. Sr.
Political Economy 2 Jr. Sr.
Political Economy 6 Sr.
Political Economy 8 Sr.
German 6 Jr. Sr.
" 47 Jr. Sr.
" 17 Jr. Sr.
" 41* So. Jr. Sr.
" 11 Jr. Sr.
" 14* Sr.
" 38 Sr.
French 5 So. Jr. Sr.
" 14 So. Jr. Sr.
" 8 Jr. Sr.
" 11 Sr.

*Omitted in 1896-97.

*Second Term—Continued*

Italian 2 Jr. Sr.
" 8* Jr. Sr.
" 11 Sr.
Spanish 2 Jr. Sr.
Mathematics 10 So. Jr. Sr.
Mathematics 14 So. Jr. Sr.
Mathematics 16 Jr. Sr.
" 19* Sr.
" 22 Sr.
Drawing 17 So. Jr. Sr.
" 8 So. Jr. Sr.
" 11 Jr. Sr.
" 28 Sr.
" 19 So. Jr. Sr.
" 3 So. Jr. Sr.
" 22 So. Jr. Sr.
" 33 Jr. Sr.
Civil Engineering 2 So. Jr. Sr.
Civil Engineering 6 Jr. Sr.
Civil Engineering 10 Jr. Sr.
Civil Engineering 14 Jr. Sr.
Civil Engineering 15 Sr.
Civil Engineering 16 Sr.
Civil Engineering 20 Sr.
Mechanical Engineering 4 Sr.
Mechanical Engineering 7 Sr.
Mechanical Engineering 10 So. Jr. Sr.
Mechanical Engineering 13 So. Jr. Sr.
Mechanical Engineering 16 So. Jr. Sr.
Mechanical Engineering 17 So. Jr. Sr.
Mechanical Engineering 18 So. Jr. Sr.
Mechanics 4 So. Jr. Sr.
" 8 Jr. Sr.
Chemistry 2 So.
" 5 Jr.
" 8 Sr.
" 11 Sr.
" 13 Sr.
" 15 Sr.
" 17 Sr.
Physics 2 So. Jr.
Physics 9 Jr. Sr.
" 12 Jr. Sr.
" 14 Sr.
" 18 Sr.
" 20 Sr.
" 27* Sr.
Astronomy 2 Jr. Sr.
" 3 Jr. Sr.
" 12 Sr.
Zoölogy 1 Jr Sr.
Geology 2 Sr.
Comparative Anatomy 1 So. Jr. Sr.
Comparative Anatomy 4 So. Jr. Sr.
Comparative Anatomy 17 Jr. Sr.
Comparative Anatomy 20 Jr. Sr.
Comparative Anatomy 9 Jr. Sr.
Botany 2 So. Jr. Sr.
" 10 Jr. Sr.
Military Science 5 So. Jr. Sr.
Library Lecture 1 Jr. Sr.

*Third Term*

Philosophy 19 Jr.
" 38 Jr.
" 4 Jr. Sr.
" 22 Sr.
" 10 Sr.
" 13* Sr.
" 6 Sr.
" 15 Sr.
" 18* Sr.
" 24 Sr.
" 25* Sr.
Pedagogy 3 Sr.
Greek 5 So.
" 9* Jr. Sr.
" 12 Jr. Sr.
" 15* Jr. Sr.
" 18 Jr. Sr.
" 20* Jr. Sr.
" 24* So. Jr. Sr.
" 27* Sr.
" 30 Jr. Sr.
" 39 Jr. Sr.
" 42 Sr.
Latin 6 So.
" 9* Jr. Sr.
" 15* Jr. Sr.
" 13 Jr. Sr.
" 18 Jr. Sr.
" 21* Sr.
" 24 Sr.
Philology 3 Jr. Sr.
Philology 5 Jr. Sr.
History of Art 6 Jr. Sr.
" " 8 Jr. Sr.
Architecture 2 So. Jr. Sr.
Architecture 8 Jr. Sr.
" 11 Jr. Sr.
" 14 Sr.
" 31 Sr.
Music 3 So. Jr. Sr.
" 6 Jr. Sr.
" 9 Sr.
" 12 Jr. Sr.
" 13* Jr. Sr.
Hebrew 3 Jr. Sr.
" 7* Jr. Sr.
New Testament 3* Jr. Sr.
New Testament 4* Jr. Sr.
Rhetoric 18 Jr. Sr.
" 29 Sr.
" 7 Jr. Sr.

*Third Term—Continued*

Rhetoric 21 So.
" 38 Jr.
English 12 So. Jr. Sr.
" 15* Jr. Sr.
" 26 Jr. Sr.
" 39 So. Jr. Sr.
" 3 So. Jr. Sr.
" 6 Jr. Sr.
" 36 Jr. Sr.
" 55 Sr.
" 58 Jr. Sr.
" 33 Jr. Sr.
" 45 Jr. Sr.
" 48* Jr. Sr.
" 52 Jr. Sr.
" 37* Jr. Sr.
" 18 Jr. Sr.
History 3 Jr. Sr.
" 6 Jr. Sr.
" 9 Sr.
" 11* Jr. Sr.
" 15 Jr. Sr.
" 16* Jr. Sr.
Social Science 3 Jr. Sr.
Social Science 6 Sr.
Political Science 2 Jr. Sr.
Political Science 7 Jr. Sr.
Elementary Law 3 Jr. Sr.
Elementary Law 6* Jr. Sr.
Political Economy 3 Jr. Sr.
Political Economy 5 Sr.
Political Economy 9 Sr.
German 6 Jr. Sr.
" 48 Jr. Sr.
" 18 Jr. Sr.
" 42* So. Jr. Sr.
" 12 Jr. Sr.
" 15* Sr.
" 39 Sr.
French 6 So. Jr. Sr.
French 15 So. Jr. Sr.
" 9 Jr. Sr.
" 12 Sr.
Italian 3 Jr. Sr.
" 9* Jr. Sr.
" 12 Sr.
Spanish 3 Jr. Sr.
Mathematics 8 So. Jr. Sr.
Mathematics 11* So. Jr. Sr.
Mathematics 30 So. Jr. Sr.
Mathematics 12 So. Jr. Sr.
Mathematics 20 Sr.
" 23 Sr.
Drawing 18 So. Jr. Sr.
" 9 So. Jr. Sr.
" 12 Jr. Sr.
" 20 So. Jr. Sr.
" 4 So. Jr. Sr.
" 23 So. Jr. Sr.
" 34 Jr. Sr.
Civil Engineering 3 So. Jr. Sr.
Civil Engineering 7 Jr. Sr.
Civil Engineering 8 So. Jr. Sr.
Civil Engineering 11 Jr. Sr.
Civil Engineering 12 Jr. Sr.
Civil Engineering 17 Sr.
Civil Engineering 18 Sr.
Civil Engineering 21 Sr.
Mechanical Engineering 9 Jr. Sr.
Mechanical Engineering 5 Sr.
Mechanical Engineering 8 Sr.
Mechanical Engineering 11 So. Jr. Sr.
Mechanical Engineering 14 So. Jr. Sr.
Mechanical Engineering 17 So. Jr. Sr.
Mechanical Engineering 18 So. Jr. Sr.
Mechanics 6 So. Jr. Sr.
Chemistry 3 So.
" 6 Jr.
" 9 Sr.
" 12 Sr.
" 14 Sr.
" 16 Sr.
" 18 Sr.
" 20 Sr.
Physics 4 So. Jr.
" 10 Jr. Sr.
" 16 Sr.
" 15 Sr.
" 19 Sr.
" 21 Sr.
" 28 Sr.
Astronomy 6 Jr. Sr.
" 4 Jr. Sr.
" 13 Sr.
Zoölogy 2 Jr. Sr.
Geology 3 Sr.
Anthropology 1 Sr.
Comparative Anatomy 2 So. Jr. Sr.
Comparative Anatomy 10 So. Jr. Sr.
Comparative Anatomy 18 Jr. Sr.
Comparative Anatomy 21 Jr. Sr.
Comparative Anatomy 8 Jr. Sr.
Botany 3 So. Jr. Sr.
" 11 So. Jr. Sr.
Military Science 6 So. Jr. Sr.
Library Lecture 2 Jr. Sr.

*Omitted in 1896-97.

## B. FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE

### † *First Term*

Mathematics 13 So. Jr.
" 15 Jr. Sr.
" 21 Sr.
Civil Engineering 1 So. Jr.
Civil Engineering 13 Sr.
Mechanical Engineering 1 So. Jr. Sr.
Mechanical Engineering 3 Sr.
Mechanical Engineering 6 Sr.
French 4 So. Jr. Sr.
German 4 So. Jr. Sr.
Botany 1 So. Jr. Sr.
Comparative Anatomy 15 So. Jr. Sr.
Comparative Anatomy 3 So. Jr. Sr.
Comparative Anatomy 16 Jr. Sr.
Comparative Anatomy 19 Sr.
Mechanics 3 Jr. Sr.
" 7 Sr.
Astronomy 1 Jr. Sr.
" 8 Sr.
" 11 Sr.
Chemistry 4 Jr. Sr.
" 7 Sr.
" 10 Sr.
Physics 5 Jr. Sr.
" 11 Sr.
" 26 Sr.
" 17 Sr.
Spanish 1 Jr. Sr.
Italian 1 Jr. Sr.
History 4 Jr. Sr.
" 7 Sr.
Philosophy 36 Jr.
" 2 Jr.
" 20 Sr.
" 29 Sr.
" 8 Sr.
" 5a Sr.
English 1 So. Jr. Sr.
" 4 Jr. Sr.
Social Science 1 Jr. Sr.
Political Science 1 Jr. Sr.
Political Economy 1 Jr. Sr.
Geology 1 Sr.

### † *Second Term*

Mathematics 14 So. Jr.
" 16 Jr. Sr.
" 22 Sr.
Civil Engineering 2 So. Jr.
Civil Engineering 10 Jr. Sr.
Civil Engineering 14 Sr.
Civil Engineering 15 Jr. Sr.
Civil Engineering 16 Sr.
Mechanical Engineering 4 Sr.
Mechanical Engineering 7 Sr.
French 5 So. Jr. Sr.
German 6 So. Jr. Sr.
Botany 2 So. Jr. Sr.
" 10 So. Jr. Sr.
Comparative Anatomy 1 So. Jr. Sr.
Comparative Anatomy 4 So. Jr. Sr.
Comparative Anatomy 17 Jr. Sr.
Comparative Anatomy 20 Sr.
Comparative Anatomy 8 Sr.
Mechanics 4 Jr. Sr.
" 8 Sr.
Astronomy 2 Jr. Sr.
" 3 Jr. Sr.
" 9 Sr.
" 12 Sr.
Chemistry 5 Jr. Sr.
" 8 Sr.
" 11 Sr.
" 13 Sr.
" 15 Sr.
" 17 Sr.
Physics 9 Jr. Sr.
" 12 Sr.
" 27 Sr.
Physics 18 Sr.
Spanish 2 Jr. Sr.
Italian 2 Jr. Sr.
History 5 Jr. Sr.
" 8 Sr.
Philosophy 37 Jr.
" 3 Jr.
" 21 Sr.
" 30 Sr.
" 9 Sr.
" 5b Sr.
" 26 Sr.
English 2 So. Jr. Sr.
" 5 Jr. Sr.
Social Science 2 Jr. Sr.
Political Science 3 Jr. Sr.
Political Economy 2 Jr. Sr.
Geology 2 Sr.
Zoölogy 1 Jr. Sr.

†See note p. 46.

† *Third Term*

Mathematics 30 So. Jr. Sr.
Mathematics 8 Jr. Sr.
" 23 Sr.
Civil Engineering 3 So. Jr.
Civil Engineering 8 So. Jr. Sr.
Civil Engineering 11 Jr. Sr.
Civil Engineering 12 Jr. Sr.
Civil Engineering 17 Sr.
Civil Engineering 18 Sr.
Mechanical Engineering 9 Jr. Sr.
Mechanical Engineering 5 Sr.
Mechanical Engineering 8 Sr.
French 6 So. Jr. Sr.
German 8 So. Jr. Sr.
Botany 3 So. Jr. Sr.
" 11 So. Jr. Sr.
Comparative Anatomy 2 So. Jr. Sr.
Comparative Anatomy 10 So. Jr. Sr.
Comparative Anatomy 18 Jr. Sr.
Comparative Anatomy 21 Sr.
Comparative Anatomy 9 Sr.
Mechanics 6 Jr. Sr.
Astronomy 6 Jr. Sr.
" 4 Jr. Sr.
" 10 Sr.
" 13 Sr.
Chemistry 6 Jr Sr.
" 9 Sr.
" 12 Sr.
" 14 Sr.
" 16 Sr.
" 18 Sr.
" 20 Sr.
Physics 10 Jr. Sr.
" 15 Sr.
" 28 Sr.
" 19 Sr.
Spanish 3 Jr. Sr.
Italian 3 Jr. Sr.
History 6 Jr. Sr.
" 9 Sr.
Philosophy 38 Jr.
" 19 Jr.
" 4 Jr. Sr.
" 22 Sr.
" 10 Sr.
English 3 So. Jr. Sr.
" 6 Jr. Sr.
Social Science 3 Jr. Sr.
Political Science 2 Jr. Sr.
Political Economy 3 Jr. Sr.
Geology 3 Sr.
Anthropology 1 Sr.
Zoölogy 2 Jr. Sr.

†See note p. 46.

# THE COURSES OF INSTRUCTION ARRANGED ACCORDING TO DEPARTMENTS

## I. Philosophy

The President, Professors Delabarre, Everett, Jacobs, and Mr. Boodin.

19. *Logic.* Three hours. Third Term. [Required of all Juniors.] In 1896-97, elective for Juniors.

Mr. Boodin

36, 37, 38. *Philosophical Introduction.* An elementary course in the main problems of philosophy and their typical solutions, intended to acquaint the student with the attitude and method adopted in philosophical discussion, and to introduce him to the literature of the subject. Three hours. Through the year. Elective for Juniors.

The President, Professors Delabarre and Everett

2, 3. *Psychology.* General synthetic course. Three hours. First and Second Terms. Elective for Juniors.

Professor Delabarre

4. *Psychology.* Laboratory course. Experiments by the students in the main lines of psychological research. Three hours. Third Term. Elective for Juniors, Seniors and Graduates.

Professor Delabarre and Mr. Boodin

20, 21, 22. *Psychology.* Advanced course. Seminary for the discussion of important and interesting questions in Psychology. First Term: the fundamental principles of Psychology; Second Term: abnormal and unusual states of consciousness: Third Term: subject undetermined. Three hours. Elective for Seniors and Graduates.

Professor Delabarre

29, 30. *Psychology.* Advanced and original experimental work. One hour, two hours attendance. First and Second Terms. Elective for Seniors and Graduates who have passed in Course 4.

Professor Delabarre

8. *History of Greek Philosophy.* Three hours. First Term. Elective for Seniors and Graduates.

Professor Everett

9. *History of Mediaeval and Early Modern Philosophy.* Three hours. Second Term. Elective for Seniors and Graduates who have passed in Course 8.

PROFESSOR EVERETT

10. *History of Recent and Contemporary Philosophy.* Three hours. Third Term. Elective for Seniors and Graduates who have passed in Courses 8 and 9.

PROFESSOR EVERETT

11, 12, 23. *Course in Authors.* Three hours. Through the year. Elective for Seniors and Graduates. Not offered in 1896–97.

PROFESSOR DELABARRE

5a. *Theoretical Ethics, Part I.* The moral ideal. Three hours. First Term. Elective for Seniors and Graduates.

PROFESSOR EVERETT

5b. *Theoretical Ethics, Part II.* The moral life. The virtues and institutions. The course will conclude with a discussion of the metaphysical implications of morality. Three hours. Second Term. Elective for Seniors and Graduates.

PROFESSOR EVERETT

6, 15. *Practical Ethics.* Three hours. Second and Third Terms. Elective for Seniors and Graduates. In 1896–97, six hours, Third Term only.

THE PRESIDENT

17, 18. *Conversations in Casuistry.* One hour. Second and Third Terms. Elective for Seniors and Graduates. Not offered in 1896–97.

THE PRESIDENT

24. *Philosophy of Religion.* The content of the religious, particularly of the Christian consciousness, with the metaphysical grounds of religious belief. Three hours. Third Term. Elective for Seniors and Graduates.

PROFESSOR EVERETT

25. *Instruction in the Christian Religion.* One hour. Third Term. Elective for Seniors and Graduates. Not offered in 1896-97.

THE PRESIDENT

14. *Philosophical Seminary.* Papers, followed by discussion, on the more difficult problems of philosophy. Two hours. Through the year. Elective for graduates. The subject of study for 1896-97 is the Ethics of Aristotle.

PROFESSOR EVERETT

26. *Science of Religion.* The nature and development of religious belief as seen in the representative systems. Three hours. Second Term. Elective for Seniors and Graduates.

Mr. Boodin

*Philosophical Club.* An organization consisting of Graduates and Seniors, with the instructors in the department, for the independent discussion of philosophical questions. See further, under Philosophy, in General Description of the Courses of Instruction.

### Pedagogy

Professor Jacobs

1. *The History of Educational Theories and Institutions.* Lectures. Essays. Private reading of educational classics. Three hours. First Term. Elective for Seniors and Graduates.

2. *The Institutes of Pedagogy.* Lectures. Essays and conferences. Three hours. Second Term. Elective for Seniors and Graduates.

3. *Practical Pedagogy.* School systems in this country and in Europe, school hygiene, school management and discipline, methods in teaching certain subjects, observation of typical schools. Three hours. Third Term. Elective for Seniors and Graduates.

4, 5, 6. *Seminary in Pedagogy.* Herbartian Pedagogy, child study including the period of adolescence, school hygiene, educational values. Two hours. Through the year. Open to Student-teachers, and, by special permission, to others.

7, 8, 9. *Seminary in Methods.* Methods in Discipline, Latin, Greek, French, English, History, Mathematics, Physics, Chemistry. Two hours. Through the year. Open to Student-teachers, and, by special permission, to others.

10, 11, 12. *Problems in Practical Teaching.* The control and conduct of classes. Plans for single lessons and for "method wholes." Teaching under observation. Observation of the work of experienced teachers. Reports, private conferences. Thesis upon some practical question of educational work. Seminary once a week. Through the year. Open to Student-teachers.

## II. Greek Literature and History

Professors Manatt and Allinson, and Mr. Whitaker

1. *Lysias.* Reading of select orations, and practice in sight-reading. Three hours. *Greek Prose Composition.* One hour. First Term. Required of candidates for the degree of Bachelor of Arts.

Professors Manatt and Allinson, and Mr. Whitaker

2. *Plato.* Apology, Crito and Meno, with other selections for sight-reading. Three hours. *Greek History*, based on a rapid reading of Herodotus and Thucydides in English. One hour. Second Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSORS MANATT AND ALLINSON, AND MR. WHITAKER

3. *Homer.* The Odyssey, four books, with sight-reading; lectures on the life of the Heroic Age as revealed in the poems and illustrated by recent archaeological research. Three hours. *Greek Literature.* One hour. Third Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSORS MANATT AND ALLINSON, AND MR. WHITAKER

6. *Demosthenes.* Philippics and Olynthiacs, with studies in the history and politics of Athens in the fourth century. Three hours. First Term. Elective for Sophomores.

PROFESSOR MANATT

4. *Plato and Lucian.* Plato's Protagoras or Phaedo, Lucian's Vera Historia. Selections for sight reading. Three hours. Second Term. Elective for Sophomores.

PROFESSOR ALLINSON

5. *Aeschylus and Sophocles.* Two plays, with collateral reading from Euripides and Aristophanes. Three hours. Third Term. Elective for Sophomores.

PROFESSOR ALLINSON

7, 8, 9. *The Historians.* Herodotus, Thucydides, and Xenophon, with parallel reading in Plutarch's Lives, followed by an outline sketch of Greek history down to the present day. Three hours. Through the year. Elective for Juniors and Seniors who have completed Courses 1-6, or equivalent work. Not offered in 1896-97.

PROFESSOR MANATT

10. *Isaeus.* The extant speeches read and discussed in their bearings on Athenian family life and testamentary law. Collateral reading: Jebb's Attic Orators. Three hours. First Term. Elective for students who have completed Courses 1-6, or equivalent work. Not offered in 1896-97.

PROFESSOR MANATT

11. *Demosthenes.* Private Speeches, selected to illustrate the working of Athenian institutions. Three hours. Second Term. Elective as Course 10.

PROFESSOR MANATT

12. *Aeschines and Demosthenes.* The Speeches on the Crown. Study of the Macedonian period and of Athenian political life. Three hours. Third Term. Elective as Courses 10 and 11.

PROFESSOR MANATT

13, 14, 15. *Homer.* The Odyssey, with portions of the Iliad and Hymns in the original, the remainder of the poems in translation. Three hours. Through the year. Elective for Juniors and Seniors. Not offered in 1896-97.

PROFESSOR MANATT

16. *The Greek Dramatists.* The Agamemnon or the Persians of Aeschylus; the Oedipus Tyrannus of Sophocles; the Frogs of Aristophanes; the development of the Greek Drama; the Greek Theatre. Three hours. First Term. Elective for Juniors, Seniors and Graduates.

PROFESSOR ALLINSON

17. *Aristophanes.* Selected plays. Three hours. Second Term. Elective for Juniors, Seniors and Graduates. Not offered in 1896–97.

PROFESSOR ALLINSON

18. *The Greek Drama (continued).* Four plays from Sophocles and Euripides. Three hours. Third Term. Elective for Juniors, Seniors and Graduates. This course may be given in connection with the Seminary work.

PROFESSOR ALLINSON

20. *The Topography and Monuments of Greece.* On the basis of Pausanias. One hour. Third Term. Elective for Juniors and Seniors. Not offered in 1896–97.

PROFESSOR MANATT

22, 23, 24. *Modern Greek.* One hour. Through the year. Elective for Sophomores, Juniors and Seniors. Not offered in 1896–97.

PROFESSOR MANATT

25, 26, 27. *Plato and Aristotle.* Plato's Republic and Aristotle's Politeia of Athens and Politics. Two hours. Through the year. Seminary for Seniors and Graduates. Not offered in 1896–97.

PROFESSOR MANATT

28, 29, 30. *Plato and Lucian.* Three hours. Through the year. Elective for Juniors and Seniors. Not offered in 1896–97.

PROFESSOR ALLINSON

31, 32, 33. *The Orators.* Antiphon, Andocides, Isaeus. Greek historical inscriptions. Two hours. Through the year. Elective for Graduates. Not offered in 1896–97.

PROFESSOR MANATT

34, 35, 36. *Greek Seminary.* (*a*) Demosthenes' Private Speeches. Two hours. Through the year. (*b*) The Dramatists, Aristophanes and Comic Fragments. Two hours. Through the year.

PROFESSORS MANATT AND ALLINSON

37, 38, 39. *Classical Philology.* See Indo-European Philology, 1, 2, 3.

PROFESSOR ALLINSON

40, 41, 42. *Homer and Mycenaean Archaeology.* Three hours. Through the year. Elective for Graduates and qualified Seniors.

PROFESSOR MANATT

43. *Greek Composition.* Advanced course for those intending to teach or otherwise specialize upon the classics. One hour. First Term. Elective for Juniors and Seniors, and for Sophomores who take Greek 6.

PROFESSOR ALLINSON

## III. ROMAN LITERATURE AND HISTORY

PROFESSOR HARKNESS, MESSRS. GREENE, SHIPPEE AND BICKNELL

1. *Livy.* Early Roman History. Four hours. First Term. Required of candidates for the degree of Bachelor of Arts.

MESSRS. GREENE, SHIPPEE AND BICKNELL

2. *Cicero.* Letters. Cicero and his times. Four hours. Second Term. Required of candidates for the degree of Bachelor of Arts.

MESSRS. GREENE, SHIPPEE AND BICKNELL

3. *Tacitus.* Germania and Agricola. History of the Early Empire. Four hours. Third Term. Required of candidates for the degree of Bachelor of Arts.

MESSRS. GREENE, SHIPPEE AND BICKNELL

4. *Horace.* Odes and Epodes. Ovid's Lyrics. Lectures on Lyric Poetry. Three hours. First Term. Elective for Sophomores.

PROFESSOR HARKNESS AND MR. GREENE

5. *Catullus, Tibullus and Propertius.* Lyric Poetry continued. Three hours. Second Term. Elective for Sophomores.

PROFESSOR HARKNESS AND MR. GREENE

6. *The Satires of Horace and Juvenal.* Three hours. Third Term. Elective for Sophomores.

PROFESSOR HARKNESS AND MR. GREENE

7. *The Origin of Latin Poetry and the Development of the Drama.* Readings from Plautus and Terence. Three hours. First Term. Elective for Juniors and Seniors. Not offered in 1896-97.

PROFESSOR HARKNESS

8. *The Poetry of the Republic (continued) and the Poetry of the Augustan Age.* Readings from Lucretius and other authors of this period. Three hours. Second Term. Elective for Juniors and Seniors. Not offered in 1896–97.

PROFESSOR HARKNESS

9. *The Poetry of the Silver Age.* Readings from authors of the period. Three hours. Third Term. Elective for Juniors and Seniors. Not offered in 1896–97.

PROFESSOR HARKNESS

11. *Prose of the Republican Period.* The development of oratory. Readings from Specimens of Early Latin, from Cicero's Brutus, and from Quintilian. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR HARKNESS

12. *Prose of the Augustan Age.* The development of historical writing: Readings from the historians. Three hours. Second Term. Elective for Juniors and Seniors.

PROFESSOR HARKNESS

13. *Prose of the Silver Age.* Roman philosophers. Readings from Seneca and from other authors of this period. Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR HARKNESS

The object of Courses 11–13 is to give a connected idea of the development and history of Latin Prose. These courses alternate with corresponding courses on the history of Latin Poetry.

10, 14, 15. *Private Life and Antiquities of Rome.* Illustrated by lantern views and photographs. One hour. Through the year. Elective for Juniors, Seniors and Graduates. Not offered in 1896–97.

PROFESSOR HARKNESS

16, 17, 18. *Pliny the Younger.* Letters. Also selected passages of other authors illustrating the private life of the Romans. One hour. Through the year. Elective for Juniors, Seniors and Graduates.

PROFESSOR HARKNESS

19, 20, 21. *Seminary Courses in Epigraphy.* Study of epigraphical alphabets, illustrated by Huebner's *Exempla Scripturæ Epigraphicæ Latinæ.* Introductory lectures preparatory to the investigation of special topics in the *Corpus Inscriptionum Latinarum.* Investigations by the class of special questions relating to the Latin language and to Roman life. Two hours. Through the year. Elective for Graduates and qualified Undergraduates. Not offered in 1896–97.

PROFESSOR HARKNESS

22, 23, 24. *Seminary in Palaeography and Textual Criticism.* Introductory lectures illustrated by fac-similes of manuscripts. Critical study of authors with special reference to the manuscripts and to the establishment of the correct text. Two hours. Through the year. Elective for Graduates and qualified Undergraduates.

PROFESSOR HARKNESS

25, 26, 27. *Seminary Courses in Numismatics.* The Roman monetary system. Study of Roman coins as illustrating Roman life, history and art. Pictures and specimens of Roman coins. One hour. Through the year. Elective for Graduates. Not offered in 1896-97.

PROFESSOR HARKNESS

28, 29, 30. *Seminary Courses in Roman History.* Investigation of special problems of Roman life and history from inscriptions and other original sources. One hour. Through the year. Elective for Graduates.

PROFESSOR HARKNESS

## IV. INDO–EUROPEAN PHILOLOGY

PROFESSOR ALLINSON

1. *General Introduction.* The relation of Greek and Latin to the other members of the Indo-European family of languages. The life and growth of languages. Introduction to comparative grammar of Greek and Latin. Two hours. First Term. Elective for Juniors, Seniors and Graduates. This course may, in certain cases, be taken in the Second and Third Terms in place of Courses 2 and 4, 3 and 5.

2, 3. *Greek and Latin Comparative Philology.* One hour. Second and Third Terms. Elective for Juniors and Seniors.

4, 5. *Sanskrit.* Elementary course. Two hours. Second and Third Terms. Elective for Juniors and Seniors.

6. *Sanskrit.* Advanced course. Introduction to the languages and literatures of the Vedas. Elective for Seniors and Graduates. Not offered in 1896–97.

## V. The Fine Arts

Professor Poland, Messrs. Isham and Ashton

### History and Criticism

Professor Poland

1. *Ancient Art* or *Classical Archaeology.* General course in the history of ancient art, chiefly Greek and Roman. Text-book. Lectures, illustrated by casts, lantern views, photographs and engravings, with collateral reading. Three hours. First term. Elective for Juniors, Seniors and Graduates.

4. *Early Christian and Mediaeval Art.* Notice of Byzantine, Arabian, and Oriental Art. Study of Romanesque and Gothic Art. Text-book. Lectures. Lantern views. Three hours. Second Term. Elective for Juniors, Seniors and Graduates.

6. *The Art of the Renaissance.* The fifteenth and sixteenth centuries. Text-book. Lectures. Lantern views. Three hours. Third Term. Elective for Juniors, Seniors and Graduates.

1, 4, 6, may be taken independently, but students are advised to elect all three. Students are strongly advised to take Course 1, if possible, before any other course in the History of Art.

7. *Modern Art.* The seventeenth and eighteenth centuries. Text-book. Lectures and assigned reading. Lantern views. Three hours. First Term. Elective for students who have completed Course 6.

9. *Modern Art.* The nineteenth century. A continuation of Course 7. Three hours. Second Term. Elective for students who have completed Course 7.

8. *Theory and Criticism of the Fine Arts.* Text-book. Lectures. Three hours. Third Term. Elective for students who have completed any course in the History of Art.

Courses 7, 9, 8, form a consecutive outline course.

10. *Critical Study of Classical Architecture.* Vitruvius, read in the original Latin, with discussion of the principles followed by the Greek and Roman architects, and of the influence of Vitruvius in the Renaissance. Three hours. First Term. Elective for Graduates.

11. *Greek and Roman Sculpture Studied from the Sources.* The critical reading of selected passages from Greek and Roman authors bearing on the history of sculpture. Lectures. Three hours. Second Term. Elective for Graduates.

3. *Pausaniae descriptio arcis Athenarum.* The critical reading, in the Greek, of Pausanias's account of the Acropolis of Athens. Lectures and illustrations. Three hours. Third Term. Elective for Graduates.

Courses 10, 11 and 3 constitute a consecutive critical course in Classical Archaeology. These courses are especially useful to those who wish to do advanced work in Classical Archaeology, Philology or History. They are open to Seniors and Juniors who can read Latin and Greek with fluency.

Other courses for Graduates are arranged as needed.

## Architecture

### Mr. Isham

1, 2. *The Orders.* Rendering in line and in washes. Three hours, one hour lecture and recitation, four hours drawing. Second and Third Terms. Elective for students who have passed in Drawing 7.

Those who have completed Course 2 may elect one, but not both, of the two groups formed by Courses 6, 7, 8, 12, 13, 14 and Courses 9, 10, 11, 29, 30, 31.

6, 7, 8. *Design.* Problems for solution. Preliminary sketches submitted for approval. Final drawings, plans, elevations, sections and perspectives rendered. Criticism. Three hours, one hour lecture and recitation, four hours drawing. Through the year. Elective for students who have passed in Course 2.

12, 13, 14. *Advanced Design.* Continuation of Course 8. Advanced problems. Sketches and final drawings. Three hours, one hour lecture and recitation, four hours drawing. Through the year. Elective for students who have passed in Courses 6, 7, 8.

9, 10, 11. *Historic.* Drawing of historic examples from data indicated by the instructor. Greek, Roman and Byzantine work. Plans and elevations. Three hours, one hour lecture and recitation, four hours drawing. Through the year. Elective for students who have passed in Course 2, and who take History of Art 1, 4, 6.

29, 30, 31. *Historic.* Continuation of Course 11. Romanesque, Gothic and Rennaisance work. Three hours, one hour lecture and recitation, four hours drawing. Through the year. Elective for students who have passed in Courses 9, 10, 11.

Both of these groups, as well as the following courses, are open to Graduates and Special Students.

20, 21, 22. *History of Ornament.* Study of the nature and development of ornament with reference to architectural design and to decoration. Three hours, one hour lecture and recitation, four hours drawing. Through the year. This course is valuable to all designers. Elective for Graduates and Special Students.

For Graduates and Special Students, special courses in Colonial Architecture, the History of Church Planning, or other subjects, are arranged whenever a sufficient number of students apply for instruction.

## Music

### Mr. Ashton

1. *Harmony.* The construction and the connection of chords. Three hours. First Term. Elective for Sophomores, Juniors and Seniors.

2. *Harmonization.* The use of non-harmonic notes with practice in the harmonization of canti firmi. Three hours. Second Term. Elective for Sophomores, Juniors and Seniors.

3. *Simple Counterpoint.* The treatment of several melodious voice-parts in harmonic combination. Three hours. Third Term. Elective for Sophomores, Juniors and Seniors.

4. *Harmonic and Contrapuntal Analysis.* Three hours. First Term. Elective for Juniors and Seniors.

5. *Double Counterpoint and Canon.* Three hours. Second Term. Elective for Juniors and Seniors.

6. *Canon and Imitation.* Three hours. Third Term. Elective for Juniors and Seniors.

7. *Fugue.* Three hours. First Term. Elective for Seniors and Graduates.

8. *Fugue and Free Composition.* Three hours. Second Term. Elective for Seniors and Graduates.

9. *Free Composition and Instrumentation.* Three hours. Third Term. Elective for Seniors and Graduates.

Courses 1 to 9 inclusive are sequential and must be taken in order.

10, 11, 12. *Structure and History of Music.* Lectures, analyses, collateral reading and reports. Three hours. Through the year. Elective for Juniors, Seniors and Graduates.

13. *Sacred Music.* Three hours. Third Term. Elective for Juniors and Seniors. Not offered in 1896-97.

14, 15, 16. *The Symphony.* Three hours. Through the year. Elective for Graduates.

17, 18, 19. *The Song.* Three hours. Through the year. Elective for Graduates.

A knowledge of the rudiments of music is required of those entering any of the above courses. Some ability in pianoforte or organ playing is desirable.

## VI. Biblical Literature and History

Professor Kent and Mr. Rees

### Hebrew

1. *Elementary Hebrew.* Harper's Manual and Elements. Three hours. First Term. Elective for Juniors, Seniors and Graduates.

Professor Kent

2. *Elementary Hebrew (continued).* Reading of Genesis iii-viii. Translation of English into Hebrew. Second Term. Elective for Juniors, Seniors and Graduates.

Mr. Rees

3. *Historical Hebrew.* Reading in the original of passages selected from the books of Samuel, with a study of Hebrew syntax and textual criticism. Driver's Notes. Three hours. Third Term. Elective for Juniors, Seniors and Graduates.

Mr. Rees

4. *Isaiah xl-lxvi.* Critical translation and interpretation in the light of the historical background. Three hours. First Term. Elective for Juniors, Seniors and Graduates.

Professor Kent

5. *Hebrew History.* From the Settlement in Canaan to the Disruption. Based on the Revised Version, statements from the monuments, and information furnished by modern Palestine and its life. Recitations, informal lectures and supplementary reading. Three hours. First Term. Elective for Juniors, Seniors and Graduates. Not offered in 1896–97.

Professor Kent

6. *Hebrew History (continued).* From the Disruption to the Exile. Especial attention to the character and work of the prophets. Three hours. Second Term. Elective for Juniors, Seniors and Graduates. Not offered in 1896–97.

PROFESSOR KENT

7. *Wisdom Literature of the Old Testament.* Proverbs, Job, Song of Songs, and Ecclesiastes. Analysis of contents, date and authorship. Three hours. Third Term. Elective for Juniors, Seniors and Graduates. Not offered in 1896-97.

PROFESSOR KENT

8. *Hebrew Messianic Prophecy.* Based on the Revised Version. Systematic classification and interpretation of the Messianic prophecies in the light of their historical setting and their fulfillment. Three hours. First Term. Elective for Juniors, Seniors and Graduates.

PROFESSOR KENT

Courses 5 to 8 require no knowledge of Hebrew.

## ASSYRIAN

1. *The Elements.* Lyon's Manual. Three hours. First Term. Elective for Seniors and Graduates.

PROFESSOR KENT

## SYRIAC

1. *The Elements.* Wilson's Manual. Three hours. First Term. Elective for Seniors and Graduates.

PROFESSOR KENT

## NEW TESTAMENT LANGUAGE AND LITERATURE

1. *The Gospel of Mark.* Critical translation. Study of linguistic peculiarities, and text criticism. Three hours. First Term. Elective for Juniors, Seniors and Graduates. Not offered in 1896-97.

PROFESSOR KENT

2. *The Gospel of Luke.* Rapid reading. Study of the contents in the light of history. Three hours. Second Term. Elective for Juniors, Seniors and Graduates. Not offered in 1896-97.

PROFESSOR KENT

3. *Paul's Corinthian Epistles.* Rapid reading. Analysis of thought. Study of the Pauline teaching. Three hours. Third Term. Elective for Juniors, Seniors and Graduates. Not offered in 1896-97.

PROFESSOR KENT

4. *The Life of Jesus.* In English. Stevens and Burton's Harmony. Systematic study of the events in their geographical and historical relations. Three hours. Third Term. Elective for Juniors, Seniors and Graduates. Not offered in 1896-97.

PROFESSOR KENT

5. *The Gospel of John.* Critical translation. Study of its characteristics, aim, teachings, and the question of date and authorship. Three hours. First Term. Elective for Juniors, Seniors and Graduates.

PROFESSOR KENT

## VII. RHETORIC AND ORATORY

PROFESSOR LAMONT, MR. DODGE, DR. POOR, AND MESSRS. FOGG, FROST, WHIPPLE, BULLOCK, PRICE, CHAMBERLAIN AND STARR

2, 3, 4. *Practical Rhetoric.* Three hours. Through the year. Required of Sophomores who have not taken the subject in the Freshman year. Elective for Freshmen on the B. P. or the B. S. course. Required of Freshmen on the C. E. or the M. E. course. For Freshmen who do not elect 19, 20, 21, this course is increased to four hours.

PROFESSOR LAMONT, MESSRS. FROST, FOGG, WHIPPLE, BULLOCK, PRICE, CHAMBERLAIN AND STARR

33, 34, 35. *Argumentative Composition.* Drill in argumentative composition. Lectures. Briefs based on masterpieces. Discussion of briefs and of arguments. One hour. Through the year. Required of all Juniors.

PROFESSOR LAMONT, DR. POOR, MESSRS. FROST, WHIPPLE AND STARR

16, 17, 18. *English Composition.* Advanced course. Short themes four or five times a week, long themes every fortnight. Criticism and discussion in class. Three hours. Through the year. Open to students who have done especially good work in composition. The membership of the class is limited to twenty.

MR. DODGE

5, 6, 7. *English Composition for Teachers.* Exercise in the various kinds of composition. Criticism and discussion with special reference to the needs of those preparing to teach. Three hours. Through the year. Advanced course, open to a limited number of Graduates and Seniors.

PROFESSOR LAMONT

27, 28, 29. *Oral Discussion.* Debates occupying two consecutive hours each week. Criticism of matter, arrangement and delivery. Three hours. Through the year. Elective, limited to sixteen students, preference being given to Graduates and Seniors who have attained high rank in English Composition, Political Economy, Social and Political Science, and History, and to those who take or have taken 19, 20, 21.

PROFESSOR LAMONT AND MR. FOGG

19, 20, 21. *Public Speaking.* A survey of the principles of the art, with weekly exercises in declamation. Class criticism of speakers. Individual training. One hour. Through the year. Elective for Sophomores, and for Freshmen on the B. P. or the B. S. course.

MR. FOGG

36, 37, 38. *Public Speaking, Advanced Course.* Informal lectures on methods of delivery and on the sources of power in public address. Frequent declamations. Individual training. One hour. Through the year. Elective for Juniors.

MR. FOGG

## VIII. ENGLISH LITERATURE AND LANGUAGE

PROFESSORS MANLY, BRONSON AND SEARS, AND MR. DODGE

Courses announced in groups are continuous; thus, a student cannot take English 5 without having taken English 4, nor can he take English 6 without having taken English 4 and 5. The same principle applies to all courses similarly grouped. In all other instances prerequisites for admission to a course are specially announced.

10. *Anglo-Saxon.* Elementary course. The essentials of the grammar and the reading of easy prose. Three hours. First Term. Elective for Sophomores, Juniors and Seniors.

PROFESSOR MANLY

11. *Anglo-Saxon.* Prose and poetry. Three hours. Second Term. Elective for students who have passed in 10.

PROFESSOR MANLY

12. *Anglo-Saxon.* Béowulf. Three hours. Third Term. Elective for students who have passed in 11.

PROFESSOR MANLY

13, 14, 15. *Oldest English Texts.* Three hours. Through the year. Elective for students who have passed in 12. Not offered in 1896-97.

PROFESSOR MANLY

24, 25, 26. *Middle English.* Three hours. Through the year. Elective for students who have passed in 12.

PROFESSOR MANLY

27, 28. *Chaucer.* Elementary course. Three hours. First and Second Terms. Elective for Sophomores, Juniors and Seniors.

PROFESSOR MANLY

39. *The History of the English Language.* Elementary course. Three hours. Third Term. Elective for students who have passed in 11 or 28.

PROFESSOR MANLY

1, 2, 3. *English Literature.* Introductory course. Three hours. Through the year. Elective for Sophomores, Juniors and Seniors.

PROFESSOR BRONSON AND MR. DODGE, ASSISTED BY PROFESSOR MANLY

Students who have not taken 1, 2, 3, or an equivalent, will not be admitted to the more advanced courses in English Literature.

4, 5, 6. *Shakspere.* Three hours. Through the year. Elective for Juniors and Seniors. May be taken two years in succession.

PROFESSOR MANLY

34, 35, 36. *Shakspere.* Three hours. Through the year. Elective for students who have passed in 1, 2, 3 and who have also passed in or are taking 4, 5, 6.

PROFESSOR BRONSON

53, 54, 55. *English Literature from Wyatt to the death of Spenser, exclusive of the Drama.* Three hours. Through the year. Elective for students who have passed in 1, 2, 3 and in 4, 5, 6.

MR. DODGE

56, 57, 58. *English Literature from the death of Spenser to the Restoration, exclusive of the Drama.* Three hours. Through the year. Elective for students who have passed in 1, 2, 3 and one other course in English. Not offered in 1896-97.

MR. DODGE

31, 32, 33. *English Literature from Dryden to Cowper, exclusive of the Novel.* Three hours. Through the year. Elective for students who have passed in 1, 2, 3.

Mr. Dodge

43, 44, 45. *English Poetry from Burns to Keats.* Three hours. Through the year. Elective for students who have passed in 1, 2, 3.

Professor Bronson

46, 47, 48. *English Poetry of the Victorian Period.* Three hours. Through the year. Elective for students who have passed in 1, 2, 3. Not offered in 1896-97.

Professor Bronson

50, 51, 52. *English Essayists of the Nineteenth Century.* Three hours. Through the year. Elective for students who have passed in 1, 2, 3 and in Rhetoric 2, 3, 4.

Professor Bronson

18, 19, 37. *The English Novel.* Three hours. Through the year. Elective for students who have passed in 1, 2, 3. Not offered in 1896-97.

Professor Bronson

16, 17, 38. *American Literature.* Three hours. Through the year. Elective for students who have passed in 1, 2, 3.

Professor Sears

## IX. History

Professors Jameson, Munro and Dealey, and Mr. Burnett

1. *General Mediaeval History of Europe.* Recitations and lectures, reports by members of the class, and supplementary readings. Three hours. First Term. Required of all Juniors.

Professor Munro

2. *General Modern History of Europe.* Methods as in Course 1. Three hours. Second Term. Required of all Juniors.

Professor Munro

3. *History of the Reformation.* Three hours. Third Term. Elective for Juniors, Seniors and Graduates.

Professor Munro

4. *English Constitutional and Political History to 1625.* Methods as in Course 1. Three hours. First Term. Elective for Juniors and Seniors.

Mr. Burnett

5. *English Constitutional and Political History since 1625.* Methods as in Course 1. Three hours. Second Term. Elective for Juniors and Seniors.

MR. BURNETT

6. *History of Europe since 1800.* Methods as in Course 1. Three hours. Third Term. Elective for Juniors and Seniors.

MR. BURNETT

7. *Constitutional and Political History of the United States to 1801.* Methods as in Course 1. Three hours. First Term. Elective for Seniors.

PROFESSOR JAMESON

8. *Constitutional and Political History of the United States since 1801.* Methods as in Course 1. Three hours. Second Term. Elective for Seniors.

PROFESSOR JAMESON

9. *Practical Exercises in American History.* Individual research, practice in the use of sources, instruction of students individually, occasional meetings in class. Three hours. Third Term. Elective for Seniors who have completed Courses 7 and 8, and for Graduates.

PROFESSOR JAMESON

10. *Principles of Historical Criticism.* Lectures and exercises. One hour. Through the year. Elective for Graduates.

PROFESSOR JAMESON

11. *History of the Renaissance.* Three hours. Third Term. Elective for Juniors, Seniors and Graduates. Not offered in 1896-97.

PROFESSOR MUNRO

12. *Practical Exercises in Historical Criticism.* One hour. Through the year. During the First Term of this year the subject will be the Third Crusade; during the Second and Third Terms, the constitutional history of England under Elizabeth and James I. Elective for Graduates.

PROFESSORS JAMESON AND DEALEY

13. *The History of Historical Writing in Modern Europe.* Lectures. One hour. First and Second Terms. Elective for Graduates. Not offered in 1896-97.

PROFESSOR JAMESON

14. *American History, Special Course.* Selected topics in the constitutional history of the Revolution, in the constitutional and political

history of the Southern States, and in the history of modern American diplomacy. Lectures. One hour. Through the year. Elective for Graduates.

PROFESSORS JAMESON AND DEALEY

15. *Islam and the Crusades.* Three hours. Third Term. Elective for Juniors, Seniors and Graduates.

PROFESSOR MUNRO

16. *The French Revolution.* Three hours. Third Term. Elective for Juniors, Seniors and Graduates.

PROFESSOR MUNRO

17. *Historical Biography.* One hour. Through the year. Elective for Graduates.

PROFESSOR JAMESON

The Historical Seminary, conducted by Professor Jameson, and including the graduate students of history and a few of the most advanced undergraduates, meets once a week. Its meetings are devoted to original papers, to reports upon studies of method, and to the historical reviews and journals. The Seminary of Mediaeval History, conducted by Professor Munro, devotes itself to similar work in connection with his courses.

## X. SOCIAL AND POLITICAL SCIENCE

PROFESSORS WILSON AND DEALEY, MESSRS. GREEN AND WILCOX

### SOCIAL SCIENCE

1. *The Principles of Sociology.* Lectures. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

2. *Social Problems and Conditions.* Some conclusions of Anthropology and Ethnology considered. The Family, Marriage, Divorce, Immigration, Charity, Pauperism, Criminology, Penology, Intemperance, Education, Social Legislation. Lectures. Three hours. Second Term. Elective for students who have completed Course 1.

PROFESSOR WILSON

3. *Social Problems and Conditions.* Continuation of Course 2. Three hours. Third Term. Elective for students who have completed Courses 1 and 2.

PROFESSOR WILSON

4. *Social Philosophy.* Special reference to the aim of society. Lectures and exercises. Three hours. Second Term. Elective for students who have completed Course 1 and for Graduates.

PROFESSOR DEALEY

5. *Development of Social Theory.* Social theories ancient and modern. Lectures and exercises. Three hours. First Term. Elective for Seniors and Graduates.

PROFESSOR DEALEY

6. *Segregation of Population.* Causes and problems. Special study of modern municipal functions and administration. Three hours. Third Term. Elective for students who have completed Courses 1 and 2, and for Graduates.

PROFESSOR DEALEY

7, 8, 9. *Current Social Theory and Practice.* Special investigations. One hour. Through the year. Elective for Graduates.

PROFESSORS WILSON AND DEALEY

## POLITICAL SCIENCE

1. *The State.* Origin, development, conditions, forms, end and functions. Recitations, lectures, exercises. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

2. *Comparative Study of Constitutions.* Especially those of the United States, Germany, France, Switzerland, England. Lectures and exercises. Three hours. Third Term. Elective for students who have passed in Courses 1 and 2.

PROFESSOR DEALEY

3. *International Law and Relations.* Three hours. Second Term. Elective for students who have passed in Course 1.

PROFESSOR WILSON

4. *United States Constitutions.* National and local constitutions and institutions. Three hours. Second Term. Elective for students who have passed in Course 1.

PROFESSOR DEALEY

5. *Development of Political Theory.* The growth of important political ideas traced from Plato to the present time. Three hours. First Term. Elective for students who have passed in Course 1.

PROFESSOR DEALEY

6. *Roman Law.* Historical and legal exposition. Influence on political institutions. Three hours. Second Term. Elective for Juniors and Seniors.

Mr. Green

7. *Diplomacy.* The art and practice of international negotiation. Three hours. Third Term. Elective for students who have passed in Course 3, and for Graduates.

Professor Wilson

8, 9, 10. *Current Political Theory and Practice.* Investigations of topics in United States and foreign politics. One hour. Through the year. Elective for Graduates.

Professors Wilson and Dealey

### Elementary Law

Mr. Wilcox

1. *Persons and Personal Property.* Three hours. First Term. Elective for Juniors and Seniors.

2. *Real Property.* Three hours. Second Term. Elective for Juniors and Seniors.

3. *Contracts.* Three hours. Third Term. Elective for Juniors and Seniors.

4. *Torts and Criminal Law.* Three hours. First Term. Elective for Juniors and Seniors.

5. *Common Law Practice and Pleading* Three hours. Second Term. Elective for Juniors and Seniors.

6. *Evidence.* Three hours. Third Term. Elective for Juniors and Seniors.

1, 2, 3 and 4, 5, 6 are given in alternate years. 1, 2, 3 are given during 1896-97.

## XI. Political Economy

Professor Gardner

1, 2, 3. *Elementary Course.* Based upon lectures and upon readings in standard authors. Essays. Three hours. Through the year. Elective for Juniors and Seniors.

4. *History of Economic Thought.* Lectures. Readings in the authors discussed. Three hours. First Term. Elective for Seniors and Graduates.

7. *Practical Economic Questions.* Discussion of the main elements of strength and weakness in the existing economic system and some of the more important propositions for modifying it. Three hours. First Term. Elective for Seniors and Graduates.

6. *Money and Banking.* A discussion of the theory of money and credit, a description of existing monetary and credit systems, and a discussion of current problems in these fields. Jevons's Money and the Mechanism of Exchange, Dunbar's Theory and History of Banking and Taussig's The Silver Question in the United States. Three hours. Second Term. Elective for Seniors and Graduates.

8. *Socialism.* Based on a study of Karl Marx's *Capital.* Three hours. Second Term. Elective for Seniors and Graduates.

5. *Public Finance.* Lectures. Bastable's Public Finance. Description and comparison of the financial systems of the United States and foreign nations, including local finance, and discussion of the principles of taxation. Three hours. Third Term. Elective for Seniors and Graduates.

9. *Methods of Economic Investigation.* Special attention is given to the statistical method, but the deductive and historical methods and the methods employed by LePlay and Charles Booth are also considered. Three hours. Third Term. Elective for Seniors and Graduates.

Courses 4, 5, 6, 7, 8, 9 are open only to those who have completed Courses 1, 2, 3, or their equivalent.

All the courses except 1, 2, 3 are subject to change and rearrangement each year.

## XII. Germanic Languages and Literatures

Professors Williams and Crowell, and Mr. Ely

### German

1. *Elementary Course.* Harris's German Reader, Thomas's Practical German Grammar. Three hours. First Term. Required of all Sophomores who did not present German for entrance.

Professor Crowell and Mr. Ely

2. *Intermediate Course.* Grammar, composition, conversation. Translation of selections in prose and verse from Goethe, Uhland, Schiller, Freytag, Benedix, Heyse. Three hours. Second Term. Required of all Sophomores who did not present German for entrance.

Professor Crowell and Mr. Ely

3. *Nineteenth Century Prose.* Reading at sight. Grammar, composition, conversation. Three hours. Third Term. Required of all Sophomores who did not present German for entrance.

PROFESSOR CROWELL AND MR. ELY

4. *Schiller. Jungfrau von Orleans,* and *Balladen und Romanzen.* Lectures. Essays. Three hours. First Term. Elective for students who have passed in Courses 1, 2 and 3.

PROFESSORS WILLIAMS AND CROWELL

6. *Lessing as Dramatist. Emilia Galotti, Minna von Barnhelm, Nathan der Weise.* Lectures. Essays. Three hours. Second Term. Elective for students who have passed in Course 4.

PROFESSORS WILLIAMS AND CROWELL

8. *Goethe. Iphigenie auf Tauris, Die Leiden des jungen Werthers.* Lectures. Essays. Three hours. Third Term. Elective for students who have passed in Course 6.

PROFESSORS WILLIAMS AND CROWELL

46, 47, 48. *Goethe's Faust, Parts I and II.* Lectures. Essays. Three hours. Through the year. Elective for students who have passed in Course 6.

PROFESSOR WILLIAMS

16. *German Literature.* Introduction. Brief survey of early periods. Klopstock, Herder, Lessing, Wieland. *Die Aufklärung. Der Göttinger Dichterbund. Die Sturm- und Drangperiode.* Lectures. Readings. Essays. Three hours. First Term. Elective for students who have studied German not less than two years.

PROFESSOR WILLIAMS

17. *German Literature.* Goethe and Schiller. Lectures. Readings. Essays. Three hours. Second Term. Elective for students who have passed in Course 16.

PROFESSOR WILLIAMS

18. *German Literature.* The Romantic School. Later nineteenth century literature. Lectures. Readings. Essays. Three hours. Third Term. Elective for students who have passed in Course 17.

PROFESSOR WILLIAMS

40, 41, 42. *Composition.* One hour. Through the year. Elective for students who have had not less than one year of German. Not offered in 1896-97.

PROFESSORS WILLIAMS AND CROWELL

The courses in German, Gothic and Old Norse, which follow, are intended primarily for graduate students, but may be taken by qualified undergraduates.

10, 11, 12. *Introduction to Middle High German.* Middle High German grammar. *Das Nibelungenlied.* Lectures. One hour. Through the year. Elective for students who have had at least one year of German.

PROFESSOR WILLIAMS

13, 14, 15. *Advanced Middle High German. Des Minnesangs Frühling. Walther von der Vogelweide.* Lectures. Essays. One hour. Through the year. Elective for students who have passed in Course 12. Not offered in 1896-97.

PROFESSOR WILLIAMS

37, 38, 39. *Advanced Middle High German.* The Court Epics. Hartmann von Aue's *Iwein* and *Der arme Heinrich.* Gottfried von Strassburg's *Tristan.* Wolfram von Eschenbach's *Parzival.* Lectures. Essays. One hour. Through the year. Elective for students who have passed in Course 12.

PROFESSOR WILLIAMS

19, 20, 21. *Old High German.* One hour. Through the year. Elective for Graduates.

PROFESSOR WILLIAMS

34, 35, 36. *Germanic Philology.* Lectures upon sounds, word-formation, syntax and metre of the Germanic dialects. Two hours. Through the year. Elective for Graduates.

PROFESSOR WILLIAMS

28, 29, 30. *Germanic Mythology.* Lectures upon Germanic mythology and its relations to the Germanic literatures. One hour. Through the year. Elective for Graduates.

PROFESSOR WILLIAMS

## GOTHIC

1, 2, 3. *Gotische Grammatik. Heine's Stamm's Ulfilas.* One hour. Through the year. Elective for Graduates.

PROFESSOR WILLIAMS

## OLD NORSE

1, 2, 3. *Introductory.* Lectures. One hour. Through the year. Elective for Graduates.

PROFESSOR WILLIAMS

4, 5, 6. *Advanced. Egilssaga. Gunnlaugssaga.* Ari's *Islendingabók.* Lectures upon the Old Norse Literature. One hour. Through the year. Elective for Graduates. Not offered in 1896-97.

PROFESSOR WILLIAMS

## XIII. ROMANCE LANGUAGES AND LITERATURES

PROFESSOR LANGDON, MESSRS. JOHNSON, MORSE, TAYLOR AND BACON.

### FRENCH

A, B, C. *Elementary Course.* Grammar, composition, and reading of easy selections in modern French. The equivalent of the elementary French required for admission. Three hours. Through the year. Required of all Sophomores who did not present French for admission.

MR. MORSE

1, 2, 3. *Language Course.* Rapid translation of modern French authors, with special study of unusual constructions and idioms. Daily exercises in composition and writing from dictation. Three hours. Through the year. Required of all Freshmen who presented French for admission.

MESSRS. JOHNSON, MORSE, TAYLOR AND BACON

4, 5, 6. *Literary Readings.* Selections from the great writers of the nineteenth century. Reading of entire masterpieces outside the class-room. Daily exercises in composition and writing from dictation. Three hours. Through the year. Elective for students who have passed with credit in 1, 2, 3.

MR. JOHNSON

7, 8, 9. *French Literature of the Seventeenth Century.* Study of the principal works of Corneille, Molière, Racine, La Fontaine and Boileau. Three hours. Through the year. Elective for students who have passed with credit in 4, 5, 6.

PROFESSOR LANGDON

13, 14, 15. *Practice in Writing and Speaking French.* Advanced composition and conversation. Three hours. Through the year. Elective for students who have passed with credit in French 1, 2, 3.

MR. JOHNSON

10, 11, 12. *French Literature of the Nineteenth Century.* A study of the Romantic, Realistic and Naturalistic Schools. Weekly reports

on assigned readings. Biographical lectures. Three hours. Through the year. Elective for Seniors who have passed with credit in French 4, 5, 6, and for Graduates.

Mr. Johnson

21, 31, 32. *Old French.* Phonology and inflections. The oldest texts. *La Chanson de Roland.* Chrétien de Troyes. *Aucassin et Nicolette.* Three hours, the third at the pleasure of the instructor. Through the year. Elective for Graduates.

Professor Langdon

25, 26, 27. *Provençal.* Phonology, inflections and literature. Selections from the poetry of the troubadours. Three hours, the third at the pleasure of the instructor. Through the year. Elective for Graduates.

Professor Langdon

## Italian

1, 2, 3. *Modern Italian.* Elements of grammar. Modern authors and selections from Dante. Elementary exercises in writing Italian. Three hours. Through the year. Elective for Juniors and Seniors.

Professor Langdon

10, 11, 12. *Dante, Petrarch and Boccaccio.* Special study of the *Divina Commedia.* Selections from the *Rime* and the *Decamerone.* Three hours, the third at the pleasure of the instructor. Through the year. Elective for students who have passed in 1, 2, 3.

Professor Langdon

7, 8, 9. *Dante in English.* The whole of the *Divina Commedia* studied in English. Comparative study of this poem with Vergil's Aeneid, Milton's Paradise Lost, Goethe's Faust and Browning's The Ring and the Book. Two hours. Through the year. Elective for Juniors and Seniors at the instructor's discretion. Omitted in 1896-97.

Professor Langdon

19, 20, 21. *Ariosto, Tasso and Machiavelli.* Three hours. Through the year. Elective for Graduates. Omitted in 1896-97

Professor Langdon

16, 17, 18. *Old Italian.* Phonology and inflections. Selections from the poetry and prose of the thirteenth century. Three hours, the third at the pleasure of the instructor. Through the year. Elective for Graduates.

Professor Langdon

### Spanish

1, 2, 3. *Spanish.* Modern Spanish. Elements of grammar. Modern authors and selections from Cervantes's *Don Quixote.* Elementary exercises in writing Spanish. Three hours. Through the year. Elective for Juniors and Seniors, but cannot be taken at the same time with Italian 1, 2, 3.

Mr. Johnson

Advanced courses in Spanish will be offered when the call for them shall seem to justify their being given.

## XVI. Pure Mathematics

Professors Clarke, Davis and Manning, Messrs. Slocum, Cady, Clapp and Ash

1. *Geometry, Solid and Spherical.* Wells's Elements of Geometry, with original propositions. Five hours. First Term. Required of candidates for the degrees of Bachelor of Arts, Bachelor of Philosophy, Civil Engineer and Mechanical Engineer.

Professors Clarke, Davis and Manning, Messrs. Slocum, Cady, Clapp and Ash

2. *Trigonometry, Plane and Spherical.* Wells's Trigonometries. Five hours. Third Term. Required of candidates for the degrees of Bachelor of Arts, Bachelor of Philosophy, Civil Engineer and Mechanical Engineer.

Professors Clarke, Davis and Manning, Messrs. Slocum, Cady, Clapp and Ash

3. *Algebra.* Wells's Algebra. Five hours. Second Term. Required of candidates for the degrees of Bachelor of Arts, Bachelor of Philosophy, Civil Engineer and Mechanical Engineer.

Professors Clarke, Davis and Manning, Messrs. Slocum Cady, Clapp and Ash

4. *Spherical Trigonometry.* One hour. First Term. Required of candidates for the degree of Bachelor of Science.

Professor Manning

5. *Algebra.* Wells's Algebra. One hour. First Term. Required of candidates for the degree of Bachelor of Science.

Professor Manning

6. *Algebra.* Wells's Algebra. A continuation of Course 5. Two hours. Second Term. Required of candidates for the degree of Bachelor of Science.

PROFESSOR MANNING

7. *Algebra.* Wells's Algebra. A continuation of Course 6. Two hours. Third Term. Required of candidates for the degree of Bachelor of Science.

PROFESSOR MANNING

8. *Theory of Equations, and Determinants.* Three hours. Third Term. Elective for students who have passed in Course 3, or Courses 5, 6 and 7.

PROFESSOR MANNING

9. *Analytic Geometry.* Nichols's Analytic Geometry. Three hours. First Term. Elective for students who have passed in Courses 1, 2 and 3. Required of candidates for the degrees of Bachelor of Science, Civil Engineer and Mechanical Engineer.

PROFESSOR DAVIS

10. *Analytic Geometry.* Nichols's Analytic Geometry. Three hours. Second Term. Elective for students who have passed in Course 9. Required of candidates for the degrees of Bachelor of Science, Civil Engineer and Mechanical Engineer.

PROFESSOR DAVIS

11. *Modern Methods in Analytic Geometry.* Lectures. Three hours. Third Term. Elective for students who have passed in Course 10. Not offered in 1896-97.

PROFESSOR MANNING

12. *Differential Calculus.* Rice and Johnson's Differential Calculus. Three hours. Third Term. Elective for students who have passed in Courses 9 and 10. Required of candidates for the degrees of Bachelor of Science, Civil Engineer and Mechanical Engineer.

PROFESSOR DAVIS

13. *Integral Calculus.* Johnson's Integral Calculus. Three hours. First Term. Elective for students who have passed in Course 12. Required of candidates for the degrees of Civil Engineer and Mechanical Engineer.

PROFESSOR DAVIS

14. *Applications of the Calculus.* Rice and Johnson's Differential Calculus and Johnson's Integral Calculus. Three hours. Second Term. Elective for students who have passed in Courses 12 and 13. Required of candidates for the degrees of Civil Engineer and Mechanical Engineer.

PROFESSOR DAVIS

15. *Differential Equations.* Johnson's Differential Equations. Three hours. First Term. Elective for students who have passed in Courses 12 and 13.

PROFESSOR MANNING

16. *Differential Equations.* Johnson's Differential Equations. Continuation of Course 15. Three hours. Second Term. Elective for students who have passed in Course 15.

PROFESSOR MANNING

17. *Applications of the Theory of Functions.* One hour. Through the year. Elective for Graduates.

PROFESSOR MANNING

18, 19, 20. *Modern Algebra.* Higher plane curves and surfaces. Salmon, Clebsch, and Darboux. Three hours. Through the year. Elective for Graduates, and for candidates for the degree of Bachelor of Science who have passed in Courses 14, 16 and 30. Not offered in 1896-97.

PROFESSOR MANNING

21, 22, 23. *Theory of Functions.* Functions of a complex variable, including, in particular, a study of elliptic functions. Three hours. Through the year. Elective for Graduates, and for candidates for the degree of Bachelor of Science who have passed in Courses 15 and 16.

PROFESSOR MANNING

24, 25, 26. *Differential Equations.* Advanced course. Authors: Craig, Jordan, Pickard and Goursal. Three hours. Through the year. Elective for Graduates who have taken Courses 21, 22 and 23. Not offered in 1896-97.

PROFESSOR MANNING

27, 28, 29. *Substitutions and Transformation Groups.* Three hours. Through the year. Elective for Graduates.

PROFESSOR MANNING

## XV. DRAWING

PROFESSORS RANDALL AND BURNHAM, MESSRS. ISHAM AND KENERSON

1. *Elementary Mechanical Drawing.* Faunce's Mechanical Drawing. Nature, care and use of drawing instruments. Elements of orthographic and isometric projection. Four hours, eight hours draw-

ing. First Term. Required of candidates for the degrees of Bachelor of Science, Civil Engineer and Mechanical Engineer. Elective for Freshmen who are candidates for the degree of Bachelor of Philosophy.

PROFESSOR RANDALL

16. *Elementary Mechanical Drawing.* Similar to Course 1. Three hours, six hours drawing. First Term. Elective for Sophomores, Juniors and Seniors.

PROFESSOR RANDALL

5, 6. *Descriptive Geometry.* Church's Descriptive Geometry. Reference books: Warner, Millar, Waldo, Faunce, and Watson. Theory of orthographic and scenographic projection. Discussion and proof of theoretical and practical problems. Recitations and drawing. Four hours, three hours recitation and two hours drawing. Second and Third Terms respectively. Required of candidates for the degrees of Bachelor of Science, Civil Engineer and Mechanical Engineer. Elective for Freshmen who are candidates for the degree of Bachelor of Philosophy and have passed in Course 1.

PROFESSOR RANDALL

17, 18. *Descriptive Geometry.* Similar to Courses 5 and 6. Three hours, two hours recitation and two hours drawing. Second and Third Terms respectively. Elective for Sophomores, Juniors and Seniors who have passed in Courses 1 or 16.

PROFESSOR RANDALL

7. *Shades and Shadows and Perspective.* Based upon Descriptive Geometry. Recitations and Drawing. Three hours, two hours recitation and two hours drawing. First Term. Required of candidates for the degrees of Civil Engineer and Mechanical Engineer. Elective for students who have passed in Courses 5 and 6, or 17 and 18.

PROFESSOR RANDALL

8. *Elementary Machine Drawing.* Sketches, detail and assembly drawings of simple machines. Three hours, six hours drawing. Second Term. Required of candidates for the degree of Mechanical Engineer. Elective for students who have passed in Courses 5 and 6, or 17 and 18.

PROFESSOR RANDALL

9. *Gearing.* Nature of higher plane curves and their application in the formation of gear teeth. Recitations and drawing. Three hours, one hour recitation and four hours drawing. Third Term. Required of candidates for the degree of Mechanical Engineer. Elective for students who have passed in Mechanical Engineering 1, and in Drawing 5 and 6, or 17 and 18.

PROFESSOR BURNHAM

10, 11. *Advanced Machine Drawing.* Sketches, detail and assembly drawings of complicated machines. Lectures on drawing-room methods. Three hours, one hour recitation and four hours drawing. First and Second Terms. Required of candidates for the degree of Mechanical Engineer. Elective for students who have passed in Courses 8 and 9.

PROFESSOR BURNHAM

12. *Elements of Machine Design.* Problems in the design of mechanisms. Three hours, one hour recitation and four hours drawing. Third Term. Required of candidates for the degree of Mechanical Engineer. Elective for students who have passed in Mechanical Engineering 1, and in Drawing 10 and 11.

PROFESSOR BURNHAM

27, 28. *Advanced Machine Design.* Problems in practical design involving the calculation of the strength of parts. Three hours, one hour recitation and four hours drawing. First and Second Terms. Required of candidates for the degree of Mechanical Engineer. Elective for students who have passed in Drawing 10, 11 and 12, and in Mechanics 3, 4 and 6.

PROFESSOR BURNHAM

15. *Constructive Geometry.* Discussion and proof of original methods of solving complicated geometrical problems. Three hours, six hours drawing. First Term. Elective for students who have passed in Course 1 or 16.

PROFESSOR RANDALL

13. *Constructive Geometry.* Similar to Course 15. Four hours, eight hours drawing. First Term. Elective for students who have passed in Drawing 1 or 16.

PROFESSOR RANDALL

19. *Mechanical Drawing.* Continuation of Course 16. Plane and solid problems. Advanced orthographic and isometric projection. Three hours, six hours drawing. Second Term. Elective for students who have passed in Course 16.

PROFESSOR RANDALL

20. *Mechanical Drawing.* Continuation of Course 19. Practical work in shades and shadows, and perspective. Three hours, six hours drawing. Third Term. Elective for students who have passed in Course 19.

PROFESSOR RANDALL

29, 30, 31. *Lettering.* Simple forms of letters applicable to engineering drawings. One hour, two hours drawing. Through the year. Open only to students in Civil Engineering.

PROFESSOR HILL

2, 3, 4. *Freehand Drawing.* Outline and light and shade in pencil and charcoal from models and casts. One hour, two hours drawing. Through the year. Elective for all students.

Mr. Isham

21, 22, 23. *Freehand Drawing.* Continuation of Course 4. Charcoal, pen-and-ink, water monochrome. One hour, two hours drawing. Through the year. Elective for students who have passed in Course 4.

Mr. Isham

32, 33, 34. *Freehand Drawing.* Continuation of Course 23. One hour, two hours drawing. Through the year. Elective for students who have passed in Course 23.

Mr. Isham

## XVI. Civil Engineering

Professor Hill

All the courses here announced are required of candidates for the degree of Civil Engineer.

1, 2, 3. *Surveying.* Elementary course in land surveying. Use of tape, compass, level and transit. Adjustment of instruments. Lectures, recitations, field work and drawing. Three hours. Through the year. Elective for students who have passed in Mathematics 1, 2 and 3, and Drawing 1 or 16.

4. *Topographical Drawing.* Pen topography. Conventional signs for maps. Colored topography. Lectures and drawing. Three hours. Second Term. Not elective.

5, 6, 7. *Railroad Engineering.* Theory, location, construction, and economics. Lectures, recitations, field-work and drawing. Six, three and three hours. First, Second and Third Terms. Elective for students who have passed in Courses 3, 4 and 8.

8. *Advanced Surveying.* Topography and hydrography. City surveying. Use of stadia, plane table, sextant, and barometer. Precise base-line measurements with steel tape. Lectures, recitations, field-work and drawing. Six hours. Third Term. Elective for students who have passed in Courses 1 and 2.

10, 11. *Hydraulic Engineering.* Water-supply, irrigation, pumps and pumping machinery. Lectures and recitations. Three hours. Second and Third Terms. Elective for students who have passed in Mathematics 13 and Mechanics 4.

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12, 13, 14. *Framed Structures.* Calculation of stresses in roofs and bridges by graphical and analytical methods. Structural details. Bridge and roof design. Lectures, recitations, and drawing. Three, six and six hours. Third, First and Second Terms. Elective for students who have passed in Mathematics 13, Mechanics 4, and Drawing 1 or 16.

15. *Masonry.* Calculation of stresses in, and design of, arches, retaining walls and dams. Materials of construction. Lectures, recitations, and drawing. Three hours. Second Term. Elective for students who have passed in Mathematics 13, Mechanics 4, and Drawing 6.

16. *Geodesy.* Problems in geodetic surveying. Lectures and computations. Three hours. Second Term. Elective for students who have passed in Courses 3 and 8, and Astronomy 4.

17. *Sanitary Engineering.* Sewerage and house drainage. Lectures and recitations. Three hours. Third Term. Elective as in Course 15.

18. *Roads and Pavements.* Lectures and recitations. Three hours. Third Term. Elective as in Course 15.

19, 20, 21. *Laboratory Investigations.* Use and adjustment of instruments. Testing materials. Stereotomy. Three hours. Through the year. Elective as in Course 15.

## XVII. Mechanical Engineering

Professors Clarke and Burnham, Messrs. Lester and Stark

1. *Kinematics.* Stahl and Woods' Elements of Mechanism. Recitations, graphical and analytical solution of problems. Three hours. First Term. Required of candidates for the degree of Mechanical Engineer. Elective for students who have passed in Drawing 5 and 6, or 17 and 18.

Professor Burnham

9. *Thermo-dynamics of the Steam Engine.* Peabody's Thermodynamics. Lectures, recitations and solution of problems. Three hours. Third Term. Required of candidates for the degree of Mechanical Engineer. Elective for students who have passed in Physics 1, 2 and 4, and in Mathematics 12, 13 and 14.

Professor Burnham

3, 4, 5. *Steam Engineering.* Principles of steam engines and boilers, and methods of testing. Lectures and laboratory work. Three hours. Through the year. Required of candidates for the degree of Mechanical Engineer. Elective for students who have passed in Course 9.

PROFESSOR BURNHAM

6, 7, 8. *Materials of Engineering.* Sources, manufacture and properties of materials. Lectures, with laboratory work. Three hours. Through the year. Required of candidates for the degree of Mechanical Engineer. Elective for students who have passed in Mechanics 3, 4 and 6.

PROFESSOR BURNHAM

10, 11, 12. *Wood-work.* Carpentry, wood-turning and pattern-making. Second, Third and First Terms, respectively. Three hours, six hours of attendance. Required of candidates for the degree of Mechanical Engineer. Elective for a limited number of other students having the requisite skill.*

MR. LESTER

13, 14, 15, 16. *Metal-work.* Chipping, filing and machine work. Second, Third, First and Second Terms respectively. Three hours, six hours of attendance. Required of candidates for the degree of Mechanical Engineer. Elective for a limited number of other students having the requisite skill.*

MR. STARK

17. *Wood-work.* Elective during any term for Sophomores, Juniors and Seniors. Three hours, six hours of attendance. This course is intended for students who take only one term of Wood-work.*

MR. LESTER

18. *Metal-work.* Elective during any term for Sophomores, Juniors, and Seniors. Three hours, six hours of attendance. This course is intended for students who take only one term of Metal-work.*

MR. STARK

For courses in Elementary Machine Drawing, Gearing, Advanced Machine Drawing, Elementary Machine Design and Advanced Machine Design, see Drawing 8, 9, 10, 11, 12, 27 and 28.

*While Courses 10 to 18 are open to all students having the requisite skill, only two of them can be counted towards the degree of Bachelor of Arts, Bachelor of Philosophy, or Bachelor of Science.

### Mechanics

3, 4, 6. *Mechanics of Engineering.* Mechanics of Solids. Three hours. Through the year. Elective for students who have passed in Mathematics 9, 10 and 12, and who are taking Mathematics 13.

Professor Clarke

7, 8. *Mechanics of Engineering.* Mechanics of Fluids. Three hours. First and Second Terms. Elective for students who have passed in Courses 3, 4 and 6

Professor Clarke

## XVIII. Chemistry

Professor Appleton, Messrs. Calder, Saunders and Smith

1. *Descriptive Chemistry.* Non-metals. Three hours. First Term. Elective for Sophomores.

Professor Appleton, Messrs. Calder and Smith

2. *Descriptive Chemistry.* Metals. Continuation of Course 1. Three hours. Second Term. Elective for Sophomores.

Professor Appleton, Messrs. Calder and Smith

3. *Descriptive Chemistry.* Carbon compounds. Continuation of Course 2. Three hours. Third Term. Elective for Sophomores.

Professor Appleton, Messrs. Calder and Smith

4. *Qualitative Analysis.* Three hours, six hours of attendance. First Term. Elective for Juniors.

Professor Appleton and Mr. Saunders

5. *Qualitative Analysis (continued).* Three hours, six hours of attendance. Second Term. Elective for Juniors.

Professor Appleton and Mr. Saunders

6. *Quantitative Analysis.* Three hours, six hours of attendance. Third Term. Elective for Juniors.

Professor Appleton and Mr. Saunders

Students who have passed in Courses 1–6 may elect any of the following:

7, 8, 9. *Advanced Quantitative Analysis.* Six hours, twelve hours of attendance. Through the year.

Professor Appleton and Mr. Saunders

10, 11, 12. *Organic Chemistry.* Six hours, twelve hours of attendance. Through the year.

PROFESSOR APPLETON AND MR. SAUNDERS

13, 14. *Assaying.* Six hours, twelve hours of attendance. Second and Third Terms.

PROFESSOR APPLETON AND MR. SMITH

15, 16. *Medical Chemistry.* Six hours, twelve hours of attendance. Second and Third Terms.

PROFESSOR APPLETON AND MR. SAUNDERS

17, 18. *Agricultural Chemistry.* Six hours, twelve hours of attendance. Second and Third Terms.

PROFESSOR APPLETON AND MR. SAUNDERS

20. *The Scouring and Dyeing of Wool.* Six hours, twelve hours of attendance. Third Term.

PROFESSOR APPLETON AND MR. SAUNDERS

## XIX. PHYSICS

PROFESSORS BARUS AND PALMER, AND MR. WATSON

1, 2, 4. *Elementary Physics.* First Term, kinematics and dynamics; Second Term, molecular physics and heat; Third Term, light and electricity. Daniell's Text-book. Lectures. Weekly examinations. Three hours. Through the year. Elective for Sophomores and Juniors.

PROFESSOR BARUS

5, 9, 10. *Physical Laboratory.* General course. First Term, mechanics and acoustics; Second Term, optics and heat; Third Term, electricity. Three hours, six hours of attendance. Elective for students who have passed in Physics 1, 2, 4.

PROFESSOR PALMER

11. *Electrical Engineering.* Fundamental principles. General design and calculations of continuous current machinery. Thompson's Elementary Lessons in Electricity and Magnetism. Thompson's Dynamo-Electric Machinery. Three hours. First Term. Elective for students who have passed in Physics 10 and Mathematics 12.

MR. WATSON

12. *Electrical Engineering.* Continuation of Course 11. Alternating current machinery. Thompson's Dynamo-Electric Machinery. Thompson's Polyphase Electric Machinery. Fleming's Alternating

Current Transformer. Bedell and Crehore's Alternating Currents. Practical engineering problems will be discussed in this, as well as in the preceeding course. Three hours. Second Term. Elective for students who have passed in Physics 11 and Mathematics 13.

Mr. Watson

15. *Laboratory Course in Electrical Engineering.* General methods of testing and using electrical machinery. Determination of output and efficiency of various dynamos and motors, both for continuous and alternating currents. Three hours, six hours of attendance. Third Term. Elective for students who have passed in Physics 11 and 12.

Mr. Watson

13. *Dynamics.* Three hours. First Term. Elective for Seniors and Graduates who have passed in Physics 1, 2, 4, 5, 9, 10, and Mathematics 15.

Professor Palmer

14. *Thermodynamics.* Three hours. Second Term. Elective for Seniors and Graduates who have passed in Physics 13.

Professor Palmer

16. *Hydrodynamics.* Three hours. Third Term. Elective for Seniors and Graduates who have passed in Physics 14 and Mathematics 16.

Professor Palmer

17, 18, 19. *Advanced Laboratory Course.* Experimental investigation of special problems. Three hours, six hours of attendance. Through the year. Elective for students who have passed in Physics 10.

Professors Barus and Palmer

20, 21. *Harmonic Analysis.* Its immediate relations to the analytical theory of heat and to electric oscillations. Second and Third Terms, alternating with Courses 30, 31. Elective for Seniors and Graduates who have passed in Physics 1, 2, 4, and Mathematics 14, 15.

Professor Barus

22. *The Behavior of Matter through Long Ranges of Temperature.* Original research. Investigation of accurate methods and data in absolute pyrometry. Determination of the high temperature constants of non-volatile bodies, with a view to the elucidation of fundamental questions in the Physics of the earth's crust. Elective for Graduates.

Professor Barus

23. *The Behavior of Matter through Long Ranges of High Pressure.* Original research. The thermo-dynamics of the change of state from solid to liquid, due either to fusion or to solution, investigated with especial reference to the continuity of solid and liquid, and to the location of the lower critical temperature. Elective for Graduates.

PROFESSOR BARUS

24. *The Absolute Viscosity of Solids as Compared with Liquids and Gases.* Original research. Investigation of absolute data for the viscosity of solids. Elective for Graduates.

PROFESSOR BARUS

25. *Physical Properties of the Iron Carburets.* Original research. Physical properties of iron, steel and cast iron considered with reference to their bearing on metallurgical and electro-technical problems. Elective for Graduates.

PROFESSOR BARUS

Courses 22-25, inclusive, occupy more or less time per week according to the requirements of students. These courses are definitely organized, and the apparatus for conducting them is at hand. Other courses of original research are offered to suit the special needs or training of advanced students in this department. The order of interchange between Courses 13, 14, 16, and Courses 26, 27, 28, and between Courses 20, 21, and Courses 29, 30, 31, is not fixed. The preference of the applicants for instruction will be regarded in determining which shall be given.

26, 27, 28. *Lectures on the Mathematical Theory of Electricity and Magnetism.* Three hours. Through the year. Elective for Graduates and Seniors who have passed in Physics 10 and Mathematics 16. Alternating with Courses 13, 14, 16.

PROFESSOR PALMER

29, 30, 31. *Advanced Physics.* Lectures on dynamics and potential, elastics, hydro-statics and hydro-dynamics, viscosity and capillarity, electro-statics, magnetism, electro-magnetism, induction, Fresnel's optics, the electro-magnetic theory of light, thermal analytics and thermo-dynamics. Elective for Juniors, Seniors and Graduates who have passed in Mathematics 12, 13 and 14. Three hours. Through the year. Completed in two years. Alternating with Courses 20, 21.

PROFESSOR BARUS

## XX. Astronomy

Professors Upton and Very

1. *General Astronomy.* Young's General Astronomy, with lectures. Three hours. First Term. Elective for Juniors and Seniors.

Professor Very

2, 6. *General Astronomy (continued).* Three hours. Second and Third Terms. Elective for students who have passed in Course 1.

Professor Very

3. *Practical Astronomy.* The application of Astronomy in Navigation and Geodesy. Theory and use of instruments. Three hours. Second Term. Elective for students who have passed in Course 1.

Professor Very

4. *Practical Astronomy (continued).* Three hours. Third Term. Elective for students who have passed in Course 3.

Professor Very

The preceding courses, usually given by Professor Upton, are this year, in consequence of his absence, given by Professor Very.

11, 12, 13. *Astrophysics.* Special study of the sun. Solar and stellar spectroscopy. Theory of the spectroscope. Astronomical photography. Infra-red radiations. History of Astronomy. Three hours. Through the year. Elective for Seniors and Graduates.

Professor Very

## XXI. Zoölogy, Geology, and Anthropology

Professor Packard and Mr. Gorham

### Zoölogy

1, 2. *General Course.* Three hours. Second and Third Terms. Elective for Juniors and Seniors.

Professor Packard

### Geology

1, 2. *General Course.* Three hours. First and Second Terms Elective for Seniors.

Professor Packard

3. *Economic Geology.* Three hours. Third Term. Elective for Seniors.

Mr. Gorham

### Anthropology

1. *General Course.* Three hours. Third Term. Elective for Seniors and Graduates.

Professor Packard

## XXII. Comparative Anatomy

Professors Bumpus and Mead, Messrs. Gorham and Tower

15, 1. *Practical Vertebrate Dissection.* Four hours, six hours of attendance. First and Second Terms. Elective for Freshmen, Sophomores and others who wish to prepare themselves for the more advanced courses. Course 15 is a laboratory course in the Anatomy and Histology of the Frog; Course 1, in the Anatomy of the Cat.

Mr. Gorham

2. *Invertebrate Dissection.* Four hours, six hours of attendance. Third Term. Elective for Freshmen who have taken 15 and 1.

Professor Bumpus

Students will please observe that Courses 15, 1 and 2 are introductory and must be taken before the more advanced work. Exception will be made in 1896-97 in favor of those who have passed with credit in Courses 12, 6, 21. Those who intend subsequently to elect Comparative Anatomy 18, 19, 20 should, at the beginning of the Sophomore year, elect Chemistry 1, as four terms of Chemistry are prerequisite.

3, 4. *Comparative Anatomy of Vertebrates.* Three hours. First and Second Terms. Elective for Sophomores and others who have taken 15, 1 and 2 or 12, 6 and 21.

Professor Bumpus

10. *Normal Histology and Micro-Technique.* Three hours, six hours of attendance. Third Term. Elective for Sophomores and others who have passed with credit in Courses 3 and 4.

Mr. Gorham

16, 17. *Anatomy of the Nervous System.* Three hours. First and Second Terms. Elective for Juniors and Seniors who have passed with credit in 3 and 4.

Professor Mead

18, 19, 20, 21. *Physiology.* Three hours, six hours of attendance. Third, First, Second and Third Terms respectively. Elective for

Juniors and Seniors who have taken Qualitative and Quantitative Analysis. Only those who have passed with credit in Comparative Anatomy 18 can continue in 19, 20, and 21.

Mr. Tower

9. *Bacteriology.* Lectures and demonstrations of the various methods of bacteriological research, together with practical exercises. Three hours, six hours of attendance. Second Term. Elective for Juniors and Seniors who have passed in Comparative Anatomy 10.

Mr. Gorham

8. *Comparative Embryology.* Three hours, six hours of attendance. Third Term. Elective for Juniors and Seniors who have passed with credit in 3 and 4 or 16 and 17.

Professor Mead

The following statement indicates the regular sequence of the courses: first year, Comparative Anatomy 15, 1, 2; second year, Comparative Anatomy 3, 4, 10, and Chemistry 1, 2, 3; third year, Comparative Anatomy 16, 17, 18, and Chemistry 4; fourth year, Comparative Anatomy 9, 8, 19, 20, 21. This order cannot be departed from without special permission.

## XXIII. Botany

Professor Bailey and Mr. Collins

1, 2, 3. *Vegetable Morphology.* Four hours. Through the year. Elective for Freshmen who are candidates for the degree of Bachelor of Philosophy. Open to Sophomores as a three hour elective.

Professor Bailey

10. *Study of Mosses.* Three hours. Second Term. Elective for students who have passed in Course 3.

Professor Bailey and Mr. Collins

11. *Practice in Determining Dry Plants.* Especially those which are extra-regional. Three hours. Third Term. Elective for those who have passed in Course 3.

Professor Bailey

## XXIV. Military Science and Tactics

Professor Murray

1, 2, 3. *Practical Exercises.* Infantry and artillery drill, small arms, target practice. Two hours. First and Third Terms. One hour. Second Term. Required of first year students. Elective for Sophomores, Juniors and Seniors.

4, 5, 6. *Systematic and Progressive Instruction.* Recitations and lectures on drill regulations, army regulations, preparation of army reports and returns, organization and administration of the United States army, elements of military science, field fortifications, elements of military engineering, military hygiene, military law, signalling; and a thesis on a military subject. Three hours, two devoted to practical application of theory. Through the year. Elective for Sophomores, Juniors and Seniors.

## XXV. Books and Libraries

Mr. Koopman

1, 2. *Books and Libraries.* Lectures and seminary work. Second and Third Terms. Second Term, historical bibliography, reading and its methods. Third Term, libraries, their history, place in education, management and use. Elective for Juniors, Seniors and Graduates.

# COURSES PREPARATORY TO PROFESSIONAL STUDIES

Since the number of elective studies has become so great, students for the Ministry, the Law, Medicine, Journalism or Architecture are not infrequently at a loss to know which branches they ought to choose. The following groups are meant to aid such, by indicating the studies which a student with either of the above-named professions in view would find it to his advantage to elect, unless directed otherwise by special considerations. Competent students who complete these courses with special thoroughness are able to save a year in professional schools. Besides serving candidates for degrees, these lists will afford direction to any students for the professions who may be obliged to limit their collegiate preparation to one, two or three years. No degrees will be awarded at the completion of such shorter courses, but Certificates of Attainment will be furnished when desired.

## Suggested Course Preparatory to the Study of Theology

### First Year

The regular Freshman Course for the degree of Bachelor of Arts. See page 44.

### Second Year

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Rhetoric 2 | Rhetoric 3 | Rhetoric 4 |
| Rhetoric 19 | Rhetoric 20 | Rhetoric 21 |
| German 1 | German 2 | German 3 |
| Greek 6 | Greek 4 | Greek 5 |
| English 1 | English 2 | English 3 |
| Physics 1 or Botany 1 | Physics 2 or Botany 2 | Physics 4 or Botany 3 |

Latin or French may be substituted for Greek. Chemistry may also be taken here, and followed in the third year by Astronomy. A course in the Semitic tongues may be begun at this point, to continue one, two or three years, displacing studies regarded as less important. Other courses in English may, for qualified pupils, be preferable to 1, 2, 3.

THIRD YEAR

| *First Term.* | *Second Term* | *Third Term* |
|---|---|---|
| Hebrew 1 and 5 | Hebrew 2 and 6 | Hebrew 3 and 7 |
| Philosophy 2 and 36 | Philosophy 3 and 37 | Philosophy 19 and 38 |
| English 43 or 31 | English 44 or 32 | English 45 or 33 |
| Political Economy 1 | Political Economy 2 | Political Economy 3 |
| History 1 | History 2 | History 3 or 11 |
| Rhetoric 33 | Rhetoric 34 | Rhetoric 35 |

FOURTH YEAR

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| New Testament 1 and 5 | New Testament 2 | New Testament 3 and 4 |
| Philosophy 5a and 8 | Philosophy 9 and 6 | Philosophy 10 and 15 |
| Rhetoric 16 | Hebrew 4 | Music 13 |
| Social Science 1 | Social Science 2 | Philosophy 24 |

In this fourth year History may be continued instead of Philosophy. Also, courses in Philosophy, in History, in Literature or in Biology may take the place of Hebrew or of Social Science.

## SUGGESTED COURSE PREPARATORY TO THE STUDY OF LAW

FIRST YEAR

The regular Freshman Course for the degree of Bachelor of Arts. See page 44.

SECOND YEAR

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Rhetoric 2 | Rhetoric 3 | Rhetoric 4 |
| German 1 | German 2 | German 3 |

And in addition, three elective courses, two from the first and one from the second of the following groups:

*(Group 1)*

| | | |
|---|---|---|
| Greek 6 | Greek 4 | Greek 5 |
| Latin 4 | Latin 5 | Latin 6 |
| French 4 | French 5 | French 6 |
| English 1 | English 2 | English 3 |

*(Group 2)*

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Mathematics 9 | Mathematics 10 | Mathematics 11 or 12 |
| Chemistry 1 | Chemistry 2 | Chemistry 3 |
| Physics 1 | Physics 2 | Physics 4 |

THIRD YEAR

| | | |
|---|---|---|
| Philosophy 2 | Philosophy 3 | Philosophy 19 |
| Rhetoric 33 | Rhetoric 34 | Rhetoric 35 |
| Rhetoric 27 | Rhetoric 28 | Rhetoric 29 |
| History 1 | History 2 | History 3 |
| Political Economy 1 | Political Economy 2 | Political Economy 3 |
| Political Science 1 | Political Science 3 or 4 | Political Science 2 or 7 |
| Elementary Law 1 | Elementary Law 2 | Elementary Law 3 |

FOURTH YEAR

| | | |
|---|---|---|
| Philosophy one course | Philosophy one course | Philosophy one course |
| Social Science 1 | Social Science 2 | Social Science 3 |
| Political Economy 4 | Political Economy 6 | Political Economy 5 |
| History 4 | History 5 | History 6 |
| Elementary Law 1 or 4 | Elementary Law 2 or 5 | Elementary Law 3 or 6 |
| Political Science 5 | | |

## SUGGESTED COURSE PREPARATORY TO THE STUDY OF MEDICINE OR BIOLOGICAL SCIENCE

FIRST YEAR

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Comp. Anatomy 15 | Comp. Anatomy 1 | Comp. Anatomy 2 |
| Mathematics 1 | Mathematics 3 | Mathematics 2 |
| French 1 | French 2 | French 3 |
| Botany 1 | Botany 2 | Botany 3 |

Candidates for the degree of Bachelor of Arts will take during the Freshman year the regular course scheduled on page 44.

SECOND YEAR

| | | |
|---|---|---|
| Comp. Anatomy 3 | Comp. Anatomy 4 | Comp. Anatomy 10 |
| German 1 | German 2 | German 3 |
| Physics 1 | Physics 2 | Physics 4 |
| Chemistry 1 | Chemistry 2 | Chemistry 3 |
| Rhetoric 2 | Rhetoric 3 | Rhetoric 4 |

### Third Year

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Comp. Anatomy 16 | Comp. Anatomy 17 | German 8 |
| German 4 | German 6 | Comp. Anatomy 18 |
| Chemistry 4 | Philosophy 3 | Philosophy 4 |
| Philosophy 2 | History 2 | Philosophy 19 |
| History 1 | Rhetoric 34 | Rhetoric 35 |
| Rhetoric 33 | | |

### Fourth Year

| | | |
|---|---|---|
| Comp. Anatomy 19 | Comp. Anatomy 9 | Anthropology 1 |
| Comp. Anatomy 16 | Comp. Anatomy 20 | Comp. Anatomy 8 |
| Geology 1 | Zoölogy 1 | Comp. Anatomy 21 |
| | Geology 2 | |

Students of the Fourth Year are advised to elect courses in Philosophy, History and German, in addition to the above.

## Suggested Course Preparatory for Journalism

### First Year

The Freshman Course for the degree of Bachelor of Arts. See page 44.

### Second Year

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Rhetoric 2 | Rhetoric 3 | Rhetoric 4 |
| German 1 | German 2 | German 3 |
| Chemistry 1 | Chemistry 2 | Chemistry 3 |
| Physics 1 | Physics 2 | Physics 4 |
| English 1 | English 2 | English 3 |

### Third Year

| | | |
|---|---|---|
| Rhetoric 33 | Rhetoric 34 | Rhetoric 35 |
| History 1 | History 2 | Philosophy 19 |
| English 50 | English 51 | English 52 |
| Political Economy 1 | Political Economy 2 | Political Economy 3 |
| History 4 | History 5 | History 6 |
| Social Science 1 | Social Science 2 | Social Science 3 |

### Fourth Year

| *First Term* | *Second Term* | *Third Term* |
|---|---|---|
| Rhetoric 16 | Rhetoric 17 | Rhetoric 18 |
| Political Science 1 | Political Science 4 | Political Science 2 |
| Political Economy 4 | Political Economy 6 | Political Economy 5 |
| History 7 | History 8 | History 9 |
| Philosophy, one course | Philosophy, one course | Philosophy, one course |

To proficiency in French and German, knowledge of the Italian and Scandinavian languages might be added with advantage.

Topics relating to practical journalism are from time to time discussed before the students by men of experience. Some students while in college are able to engage in real newspaper work by acting as correspondents of Providence, Boston and New York papers.

# INSTRUCTION FOR GRADUATE STUDENTS

Brown University offers excellent facilities for graduate study, to which its own graduates and those of other colleges are alike welcome. Not only are the libraries and the laboratories of the University, its seminaries, its observatory and its various museums all of a nature greatly to assist advanced study, but the industries of the city of Providence offer numerous and rare opportunities for special scientific investigation.

A Graduate Students' Association, composed of the students carrying on advanced courses at the University, holds monthly meetings during the year, at which papers embodying the results of special investigations are read. Addresses are also made by members of the Faculty and others on topics connected with graduate work. The Philosophical Club, the Biological Club, the Art Club and the Biblical Research Club offer opportunities for the presentation and discussion of the results of investigations in their several fields.

The following courses of instruction are at present available for graduate students. Those marked with a star are intended primarily for such students, the rest being meant also for higher undergraduate work. Candidates for graduate degrees and other advanced pupils will find all of these courses exceedingly helpful in both methods and subjects. The numbers of the courses refer to the general conspectus, pages 55 to 96 inclusive.

## Philosophy

All the elective courses in Philosophy are suitable for graduate students who have not taken them.

## The Classics

*Greek* 25, 26, 27. Plato and Aristotle. Plato's Republic and Aristotle's Politeia of Athens and Politics. Two hours. Through the year.

*Greek* 31,* 32,* 33.* The Orators, Isaeus, Antiphon and Andocides, with Greek Historical Inscriptions. Two hours. Through the year. Not offered in 1896–97.

*Greek* 34,* 35,* 36.* Seminary. Demosthenes' Private Speeches, the Dramatists, Aristophanes and Comic Fragments. Two hours. Through the year.

*Greek* 40,* 41,* 42.* Homer and Mycenaean Archaeology. Three hours. Through the year.

*Latin* 10, 14, 15. Private Life and Antiquities of Rome. One hour. Through the year. Not offered in 1896–97.

*Latin* 16, 17, 18. Pliny the Younger. One hour. Through the year.

*Latin* 19,* 20,* 21,* Seminary in Epigraphy. Two hours. Through the year. Not offered in 1896–97.

*Latin* 22,* 23,* 24.* Seminary in Palaeography and Textual Criticism. Three hours. Through the year.

*Latin* 25,* 26,* 27.* Seminary in Numismatics. One hour. Through the year. Not offered in 1896–97.

*Latin* 28,* 29,* 30.* Seminary in Roman History. One hour. Through the year.

## Indo-European Philology

*Comparative Philology* 1. Introductory. Three hours. First Term.

*Comparative Philology* 2, 3. Greek and Latin Comparative Philology. One hour. Second and Third Terms.

*Comparative Philology* 4, 5. Sanskrit. Two hours. Second and Third Terms.

*Comparative Philology* 6.* Sanskrit. Advanced course. Not offered in 1896–97.

## The Fine Arts

*Fine Arts* 1. Ancient Art, or Classical Archaeology. Three hours. First Term.

*Fine Arts* 4. Early Christian and Mediaeval Art. Three hours. Second Term.

*Fine Arts* 6. The Art of the Renaissance. Three hours. Third Term.

*Fine Arts* 7, 9. Modern Art. Three hours. First and Second Terms.

*Fine Arts* 8. Theory and Criticism. Three hours. Third Term.

*Fine Arts* 10.* Critical Study of Classical Architecture. Three hours. First Term.

*Fine Arts* 11.* Greek and Roman Sculpture, from the sources. Three hours. Second Term.

*Fine Arts* 3.* Pausaniae descriptio arcis Athenarum. Three hours. Third Term.

*Architecture* 9, 10, 11. Historic. Three hours. Through the year.

*Architecture* 29, 30, 31. Historic. Advanced course. Three hours. Through the year.

*Architecture* 20, 21, 22. History of Ornament. Three hours. Through the year.

*Music* 7. Fugue. Three hours. First Term.

*Music* 8. Fugue and Free Composition. Three hours. Second Term.

*Music* 9. Free Composition and Instrumentation. Three hours. Third Term.

*Music* 10, 11, 12. Structure and History of Music. Three hours. Through the year.

*Music* 14,* 15,* 16.* The Symphony. Three hours. Through the year.

*Music* 17,* 18,* 19.* The Song. Three hours. Through the year.

## Biblical Literature and History

*Hebrew* 1, 2. Elementary. Three hours. First and Second Terms.

*Hebrew* 3. Historical. Three hours. Third Term.

*Hebrew* 4. Isaiah xl-lxvi. Three hours. First Term.

*Hebrew* 5. Hebrew History. Three hours. First Term. Not offered in 1896-97.

*Hebrew* 6. History continued. Three hours. Second Term. Not offered in 1896-97.

*Hebrew* 7. Wisdom Literature of the Old Testament. Three hours. Third Term. Not offered in 1896-97.

*Hebrew* 8. Hebrew Messianic Prophecy. Three hours. First Term.

*Assyrian* 1.* Three hours. First Term.

*Syriac* 1.* The elements. Three hours. First Term.

*New Testament* 1. Gospel of Mark. Three hours. First Term.

*New Testament* 2. Gospel of Luke. Three hours. Second Term. Not offered in 1896–97.

*New Testament* 3. Paul's Corinthian Epistles. Three hours. Third Term. Not offered in 1896–97.

*New Testament* 4. The Life of Jesus. Three hours. Third Term. Not offered in 1896–97.

*New Testament* 5. The Gospel of John. Three hours. First Term.

### Rhetoric and English

*Rhetoric* 16, 17, 18. Advanced English Composition. Three hours. Through the year.

*Rhetoric* 27, 28, 29. Oral Discussion. Three hours. Through the year.

*Rhetoric* 5, 6, 7. English Composition for Teachers. Three hours. Through the year.

*English* 13,* 14,* 15.* Oldest English Texts. Three hours. Through the year. Not offered in 1896–97.

*English* 24,* 25,* 26.* Middle English. Three hours. Through the year.

*English* 18, 19, 37. The Novel. Three hours. Through the year. Not offered in 1896–97.

*English* 16, 17, 38. American Literature. Three hours. Through the year.

*English* 34, 35, 36. Shakspere. Three hours. Through the year.

*English* 53, 54, 55. English Literature from Wyatt to the death of Spenser, exclusive of the Drama. Three hours. Through the year.

*English* 56, 57, 58. English Literature from the death of Spenser to the Restoration, exclusive of the Drama. Three hours. Through the year. Not offered in 1896–97.

*English* 31, 32, 33. English Literature from Dryden to Cowper, exclusive of the Novel. Three hours. Through the year.

*English* 43, 44, 45. English Poetry from Burns to Keats. Three hours. Through the year.

*English* 46, 47, 48. English Poetry of the Victorian Period. Three hours. Through the year.

*English* 50, 51, 52. English Essayists of the Nineteenth Century. Three hours. Through the year.

## History, Social and Political Science, and Political Economy

*History* 7, 8, 9. Constitutional and Political History of the United States. Three hours. Through the year.

*History* 10.* Principles of Historical Criticism. One hour. Through the year.

*History* 12.* Practical Exercises in Historical Criticism. One hour. Through the year.

*History* 13.* History of Historical Writing in Modern Europe. One hour. First and Second Terms.

*History* 14.* American History. Special Course. One hour. Through the year.

*History* 3. History of the Reformation. Three hours. Third Term.

*History* 11. History of the Renaissance. Three hours. Third Term. Not offered in 1896–97.

*Historical Seminary.** Special meetings during each Term.

*History* 15. Islâm and the Crusades. Three hours. Third Term.

*History* 16. The French Revolution. Three hours. Third Term.

*Political Science* 4. United States Constitution. Three hours. Second Term.

*Political Science* 5. Development of Political Theory. Three hours. First Term.

*Political Science* 6. Roman Law. Three hours. Second Term.

*Political Science* 7. Diplomacy. Three hours. Third Term.

*Political Science* 8,* 9,* 10.* Current Political Theory and Practice. One hour. Through the year.

*Social Science* 4. Social Philosophy. Three hours. Second Term.

*Social Science* 5. Development of Social Theory. Three hours. First Term.

*Social Science* 6. Segregation of Population. Three hours. Third Term.

*Social Science* 7,* 8,* 9.* Current Social Theory and Practice. One hour. Through the year.

*Political Economy* 4. History of Economic Thought. Three hours. First Term.

*Political Economy* 6. Money and Banking. Three hours. Second Term.

*Political Economy* 5. Public Finance. Three hours. Third Term.

*Political Economy* 7. Practical Economic Questions. Three hours. First Term.

*Political Economy* 8. Socialism. Three hours. Second Term.

*Political Economy* 9. Methods of Economic Investigation. Three hours. Third Term.

## Modern Languages

*German* 4, 6, 8. Lessing, Schiller, Goethe. Three hours. Through the year.

*German* 46, 47, 48. Goethe's Faust, Parts I and II. Three hours. Through the year.

*German* 16, 17, 18. German Literature. Three hours. Through the year.

*German* 10,* 11,* 12.* Middle High German. One hour. Through the year.

*German* 13,* 14,* 15.* Middle High German. Advanced. One hour. Through the year. Not offered in 1896-97.

*German* 37,* 38,* 39.* Middle High German. Advanced. One hour. Through the year.

*German* 19,* 20,* 21.* Old High German. One hour. Through the year.

*German* 28,* 29,* 30.* Germanic Mythology. One hour. Through the year.

*German* 34,* 35,* 36.* Germanic Philology. One hour. Through the year.

*Gothic* 1,* 2,* 3.* One hour. Through the year.

*Old Norse* 1,* 2,* 3.* One hour. Through the year.

*Old Norse* 4,* 5,* 6.* Advanced. One hour. Through the year. Not offered in 1896-97.

*French* 10,* 11,* 12.* Literature of the Nineteenth Century. Three hours. Through the year.

*French* 21,* 31,* 32,* Old French. Three hours. Through the year.

*French* 25,* 26,* 27.* Provençal. Three hours. Through the year.

*Italian* 10, 11, 12. Dante. One hour. Through the year.

*Italian* 7, 8, 9. Dante in English. Two hours. Through the year. Not offered in 1896–97.

*Italian* 19,* 20,* 21.* Ariosto, Tasso and Machiavelli. Three hours. Through the year. Not offered in 1896–97.

*Italian* 16,* 17,* 18.* Old Italian. Three hours. Through the year.

## Pure and Applied Mathematics

*Mathematics* 11. Modern Methods in Analytic Geometry. Three hours. Third Term. Not offered in 1896–97.

*Mathematics* 8. Theory of Equations and Determinants. Three hours. Third Term.

*Mathematics* 14. Applications of the Calculus. Three hours. Second Term.

*Mathematics* 15, 16. Differential Equations. Three hours. First and Second Terms.

*Mathematics* 17.* Applications of the Theory of Functions. One hour. Through the year.

*Mathematics* 18,* 19,* 20.* Modern Algebra. Higher Plane Curves, Surfaces. Three hours. Through the year. Not offered in 1896-97.

*Mathematics* 21,* 22,* 23.* Theory of Functions. Three hours. Through the year.

*Mathematics* 24,* 25,* 26.* Differential Equations. Three hours. Through the year. Not offered in 1896-97.

*Mathematics* 27,* 28,* 29.* Substitutions and Transformation Groups. Three hours. Through the year.

*Drawing* 9. Gearing. Three hours. Third Term.

*Drawing* 10, 11. Advanced Machine Drawing. Three hours. First and Second Terms.

*Drawing* 12. Elements of Machine Design. Three hours. Third Term.

*Drawing* 15. Constructive Geometry. Three hours. First Term.

*Drawing* 27, 28. Advanced Machine Design. Three hours. First and Second Terms.

*Civil Engineering.* Courses 5 to 21, inclusive.

*Mechanical Engineering.* All courses offered in this department are suitable for Graduates.

## Chemistry

None of the courses in Chemistry are exclusively for Graduates; but courses 4 to 20, inclusive, will be found appropriate for Graduates who have not pursued them. Graduate students are afforded all practicable facilities for carrying on, in the Chemical Laboratory, investigations approved by the professor in charge. Graduate degrees in Chemistry will be conferred only after a large amount of laboratory work.

## Physics and Astronomy

*Physics* 11. Electrical Engineering. Three hours. First Term.

*Physics* 12. Electrical Engineering continued. Three hours. Second Term.

*Physics* 15. Electrical Engineering Laboratory. Three hours Three Term.

*Physics* 13. Elementary Dynamics. Three hours. First Term.

*Physics* 14. Thermo-dynamics. Three hours. Second Term.

*Physics* 16. Hydro-dynamics. Three hours. Third Term.

*Physics* 17, 18, 19. Advanced Laboratory. Three hours, six hours of attendance in the laboratory. Through the year.

*Physics* 20,* 21.* Harmonic Analysis. Three hours. Second and Third Terms.

*Physics* 22.* Behavior of matter through long ranges of temperature. Original research.

*Physics* 23.* Behavior of matter through long ranges of high pressure. Original research.

*Physics* 24.* Absolute viscosity of solids as compared with liquids and gases. Original research.

*Physics* 25.* Physical properties of the iron carburets. Original research.

*Physics* 26,* 27,* 28.* Lectures on the mathematical theory of Electricity and Magnetism. Three hours. Through the year.

*Astronomy.* For Graduates who wish to pursue advanced courses in this branch, courses 8, 9 and 10 are available, and additional work is assigned in theoretical and practical Astronomy. Such students may also assist in the regular observations carried on at the Observatory.

## Comparative Anatomy, Geology, Anthropology and Botany

*Comparative Anatomy* 3, 4. Comparative Anatomy of Vertebrates. Three times a week. First and Second Terms.

*Comparative Anatomy* 8. Comparative Embryology. Three hours. Third Term.

*Comparative Anatomy* 9. Bacteriology. Three hours. Second Term.

*Comparative Anatomy* 10. Normal Histology and Micro-technique. Three hours. First Term.

*Comparative Anatomy* 18, 19, 20. Physiology. Three hours. Third, First and Second Terms.

*Comparative Anatomy* 21. Physiology. Three hours. Third Term.

*Comparative Anatomy* 16, 17. Anatomy of the Nervous System. Three hours. First and Second Terms.

*Geology* 1, 2. Three hours. First and Second Terms.

*Geology* 3. Economic Geology. Three hours. Third Term.

*Anthropology* 1. Three hours. Third Term.

*Zoölogy* 1, 2. Three hours. First and Second Term.

*Botany* 10. Study of Mosses. Three hours. Second Term.

*Botany* 11. Practice in determining dry plants. Three hours. Third Term.

# GENERAL DESCRIPTION OF THE COURSES OF INSTRUCTION

## I. Philosophy

The primary aim, both in the required and in the elective studies of this department, is to strengthen and discipline the mind of the pupil, and, so far as possible, to render him a safe, strong and independent thinker and investigator.

Psychology is taught as an empirical and experimental science. The philosophical problems involved, though necessarily left unsolved, are yet clearly pointed out. Thus the Junior course not only affords a constant stimulus to introspection, but also forms a valuable transition from the special sciences to philosophy. In the advanced courses the student is introduced to the chief lines of psychological experiment, and is given an opportunity to study further the most interesting problems and to pursue original investigations in the laboratory.

The courses in Logic are intended to exhibit the principles of correct thought, whether of the ordinary or of the scientific type. The course in Philosophical Introduction is meant, by awakening reflection on the ultimate problems of life and mind, to prepare the student for the higher courses in pure philosophy. It aims also to give a valuable general acquaintance with the subject to such as lack inclination or opportunity to pursue it further.

The treatment of the History of Philosophy is not merely analytic or historical, but synthetic and constructive; the successive philosophical systems are studied in their dialectical development and mutual relations. In addition to the general courses on the history of philosophy, there are special courses for the minute study of individual authors representative of the different periods.

The practical purpose present in all the studies of this department becomes especially pronounced in Ethics, the theoretical course in which is intended to aid the student in mastering the fundamental problems of conduct and character. Special attention is given, in separate courses, to the topics of practical ethics and casuistry now of such peculiar interest to the world.

In the courses on the Science and Philosophy of Religion, the historical development of religion is considered, its metaphysical basis is investigated, and an interpretation of the religious and especially the Christian consciousness is attempted.

In the Philosophical Seminary the more difficult problems of logic, metaphysics and the philosophy of religion are made the subject of informal but specially thorough discussion.

A Philosophical Club, consisting of graduate and Senior students of philosophy in all its branches, has also been formed for the encouragement of the independent discussion of philosophical questions, and for the fostering of a more intelligent interest in the subject among the members of the University. The club meets once a month for the reading of papers and free discussion. Though the organization is primarily in the hands of the students, the officers of instruction in the philosophical department, as well as other persons interested in philosophy but not members of the University, are usually present to take part in the proceedings.

The course in Pedagogy deals with the history, theory and practice of organized education. It affords rich discipline of mind, and intending teachers, particularly, will find it invaluable as a preparation for their work.

From members of the Senior class who have completed the course in pedagogy offered during the Senior year, the school committee of the city of Providence makes appointments to the position of student teacher in the Providence High School. To those thus appointed the high school serves as a school of observation and practice in connection with the graduate course in pedagogy. In return for the services rendered in the high

school the city gives such a student teacher half the pay of a regular teacher of the lowest grade. The time required each day is somewhat more than half the usual period of service. Two hours per week of this teaching, done in accordance with plans previously submitted to the Professor of Pedagogy and made the basis of criticism and discussion in the study of pedagogical theory, are allowed to count as laboratory work in pedagogy. An equal amount of time, devoted to careful observation of the methods of experienced teachers, is similarly utilized. A rare and unique opportunity is thus afforded student teachers to gain a thorough knowledge of the theory of pedagogy and at the same time practical experience in the art of teaching.

## II. Greek Literature and History

The studies in this department are prescribed for the Freshman year and elective for the Sophomore, Junior and Senior years.

The work of the first two years is designed to secure a good linguistic discipline, a general view of Greek literature, brought home by careful study of representative masterpieces in various departments, and as complete a view as possible of the life and genius of the Greeks and their place in the history of civilization. In connection with this work it is a constant aim to facilitate the acquisition of the language by the utmost possible use of it, as in sight-reading, translation at hearing, and conversation on the subject in hand. These studies are intended to have a certain rounded completeness in themselves, and to be at the same time a sufficient introduction to the advanced courses of the last two years.

These advanced courses contemplate a wider range of reading and a more liberal study of literature and history in the light of our accumulated knowledge of Greek lands and peoples. Each course will cover, so far as possible, the entire extant work of an author or a department of the literature. For example, the classical historians, Herodotus, Thucydides,

Xenophon, and the Attic orators, in two alternating courses, may be taken as traversing the whole field of Greek history and politics down to the death of Epaminondas, and as bringing out the chief traits of Greek social life in the classical period. Similarly, extensive courses in Homer, Plato and Lucian have been given. Still others are developed as the force of the department permits, and are so arranged that any student may follow two or more of them during the last two college years. Various short courses, linguistic, literary and archaeological, are auxiliary to these.

A one-hour course in modern Greek is offered this year, thus affording some opportunity for the study of the living language and the current literature of the Greeks.

With Graduates regular seminary courses are carried on in addition to ordinary reading and research courses. Special facilities for all the advanced work of the department are afforded by the carefully selected library known as the Albert Harkness Classical Seminary, a fuller account of which is given in later pages of this catalogue.

The President's Premiums for excellence in preparatory Greek studies are awarded upon a special examination at the beginning of the Freshman year.

The Foster Premium for the highest excellence in the Greek language is awarded upon a special examination toward the close of the Senior year.

## III. Roman Literature and History

The studies in this department, as in Greek, are prescribed for the Freshman year and elective for the Sophomore, Junior and Senior years. The courses of study have been specified in preceding pages, but other authors than those named may be read in different years.

The courses of the Freshman year are based upon prose writers. While grammatical study and literary criticism receive attention, the special aim is to enable the student to acquire facility in reading and to instruct him in the use of

the Latin texts as a means of acquiring a knowledge of the public and private life of the Romans. Special topics are assigned to committees and to individual students for investigation, and lectures are given by the officers of instruction.

The courses which are open to Sophomores relate to lyric poetry and to satire. The literary side of the study is made prominent. The instructor endeavors to aid the student in appreciating the characteristics of Roman thought and the literary quality of Roman poetry. A part of the time is occupied with a critical study of the form and structure of the poems, while a part is devoted to rapid reading with a view to comprehending the spirit of the authors. Lectures are given by the instructor, and literary topics are assigned to the class for special study.

The advanced course, open to Juniors and Seniors, relates to the development and history of Roman literature. Poetry and prose are discussed in alternate years. The aim of these courses is to give a connected and comprehensive view of the entire range of Roman literature. Comparatively little time is occupied with the formal work of recitation. Lectures are given on the lives and writings of the authors, and characteristic selections are read and discussed. Topics in literary history and criticism, adapted to individual tastes, are assigned to members of the class for special study and investigation.

For the advanced work in Latin the Albert Harkness Classical Seminary furnishes an excellent equipment. The books were chosen with special reference to the needs of advanced students of the classical languages and literatures. A fuller account of the seminary is given in later pages of this catalogue.

The President's Premiums for excellence in preparatory Latin are awarded upon a special examination at the beginning of the Freshman year.

The Lucius Lyon Premiums for excellence in the Latin language and literature are awarded upon a special examination held toward the close of the Senior year.

## IV. Indo-European Philology

The introductory course is a general survey of the Indo-European family of languages as a whole, and is therefore important for every advanced student of any of these languages, whether his chief concern be with the ancient tongues of India and Greece and Rome, with English and German, or with any other of the so-called modern languages. It aims both to give an outline of the development of the comparative study of languages during the last half-century and also to furnish a working basis for subsequent or collateral special study of some one or more of the Indo-European family of languages. As an introductory course dealing with the life and growth of language, the history, development and classification of languages, it is adapted to the needs of any one who may wish for an introduction to the scientific study of language.

The courses in Greek and Latin Philology deal more exclusively with the structure and history of these languages and their relation to other members of the group. They are designed more particularly for those intending to specialize in the classics or in comparative philology.

The work in the elements of Sanskrit is adapted to students whose chief interest is found in the Germanic or classical literatures and philology. It therefore presents such material as will serve to throw light on the syntax, phonology and morphology of these related languages. At the same time, both the elementary and the advanced courses are adapted to those students whose main interest is in Sanskrit literature or in the study of comparative philology in its broadest aspect.

## V. The Fine Arts

The courses of instruction in the Fine Arts are both theoretical and practical. The theoretical courses deal chiefly with the history of art, considered with reference to peoples and periods. The purpose of each course is to show the

development of art, as a whole, for the people and period selected, while tracing it in the several fields of architecture, sculpture, painting and the minor arts. The relation of this development to the existing political and social conditions is also carefully observed. Art is studied for its own sake, as a vital manifestation of the human spirit, and as an important factor of history. Some attention is given to theory and criticism of the fine arts.

The practical courses at present are courses of instruction in Architecture. It is hoped that instruction in the practice of the other arts may soon be added.

## History and Criticism

The courses of instruction in History and Criticism of the Fine Arts, open to Juniors, Seniors and Graduates, are of two kinds, general and special. The general courses are adapted to the acquirements of the average student, and are so arranged as to meet the needs of those who wish merely a brief but comprehensive view of the subject. At the same time they are a preparation for the special courses, for which also some special attainment, particularly in the use of the languages containing technical literature, is an indispensable requirement. A knowledge of Greek, Latin, German and French is very helpful to those who pursue even the general courses, but is not indispensable.

A general course in Ancient Art, or Classical Archaeology, is offered. In this a rapid review of the art of Egypt and of the Orient precedes the study of the earliest Hellenic art. The development of Greek art through its several periods and in its different schools follows, and the course closes with the decadence of art in the Roman period. The text-book is supplemented by lectures and by collateral reading. The plaster casts in the Museum of Classical Archaeology, lantern views, photographs and engravings are used to illustrate the subject. The object of this study is to bring the student near to those quickening and controlling motives in ancient life, especially

in the life of the Greek people, which found expression in the forms of art. The attempt is made to study the most significant specimens, to note the most important facts, and to secure a solid basis for later and more special studies in archaeology and in the criticism of art.

In the special courses in Classical Archaeology the subject is treated more in detail, and the sources are studied. This involves reading the ancient literature on the subject, the works of modern investigators and explorers, and as critical a study of the monuments as the means of illustration at command allow.

A similar method is followed in the later periods. The earlier courses are general, brief and comprehensive, and preparatory also to the later special courses. The first of these general courses covers the History of Art from the early Christian period to the end of the mediæval period. The subjects considered are the relations of the early Christian art to the decaying Pagan art, the new use of old elements and the introduction of new, Byzantine art and its influence on Arabian or Saracenic art as well as on the art of western Christendom, and the art of the periods generally known as Romanesque and Gothic. In the study of Romanesque and Gothic, architecture naturally has a prominent place as the predominant element in mediæval art, yet the other arts receive due consideration. The two periods are regarded as two connected stages in a process of evolution. Brief notice is taken of art in the Orient, Persia, India, China and Japan.

Another general course treats of Art in the Renaissance. In this rich field of study the effect on art of the dominant motives of the epoch is recognized, the development of art in the different countries of Europe is traced, and the great masters and their most significant works are studied.

As a sequence to the history of the art of the Renaissance, a general course in the History of Modern Art is offered. The first period considered is the seventeenth century. Art from that century until the present day, in the various countries of Europe and in America, is then studied.

For those who wish to study the subject more thoroughly, special courses are arranged whenever a sufficient number of students apply for instruction and the time of the professor permits.

A course in the study of Criticism is also offered. It is mainly a study of the more important facts and laws of artistic production.

## Architecture

The courses in Architecture are intended not only for those who mean to be architects, or are already in architects' offices, but also for those who, while pursuing courses leading to academic degrees, are interested in the art as a form of liberal culture. The courses in the History of Art and in Rendering and Design are eminently cultivating and disciplinary. Their practical value is also great, in view of the need of education in the fine arts and especially in architecture.

Training in Freehand Drawing is emphasized. Out-door sketching excursions are carried on during the spring and the early autumn.

The courses in Architecture begin with the drawing of the classic orders, and continue through three years. The work in Design proceeds from simple problems involving the use of the orders up to more involved programmes. Lectures are given on the character and use of the orders and upon planning and the theory of design.

The courses in Historic Drawing, which run parallel to those in design, aim, in coöperation with the historical and descriptive courses in the fine arts, to give the student a safe basis for work. The ancient masterpieces are studied and drawn both as wholes and in detail. The construction of them is analyzed and explained, and their place in the line of structural and artistic development pointed out. From these courses, together with the courses in the history of art, the student derives the ideas and inspiration necessary in solving problems in design. At this point also becomes available to

special and graduate students the course in the History of Ornament, in which the historical development of ornament is traced through Egypt, Assyria, Greece and Rome, down to the Middle Age, both in the East and in the West, and during the Renaissance. The principal forms of each period are drawn in color. In this course the student becomes familiar with the details of ornament, mainly from the freehand point of view, and gains a knowledge of ideas which are a part of the history of the race. Here, also, one who is preparing to design textile fabrics finds the best foundation for his work.

The constructive as well as the artistic side of architecture is dealt with. Elementary construction is taught orally along with the work in design, leaving the details to be learned in the professional school or in practice.

Special effort will be made, whenever called for, in directing advanced study in architectural history and design.

## Music

The courses in Music give the student an opportunity of obtaining an intelligent and appreciative acquaintance with music and of acquiring ability in the art of musical composition.

The courses in appreciation are those in the History and Structure of Music. The history of music from ancient to modern times is taken up, especially extensive consideration being given to the music of recent times. The methods of musical composition are set forth, and the characteristic musical forms—the fugue, the suite, the sonata, etc.—are presented and analyzed in the order of their historical appearance and prominence. Furthermore, the influence of industrial conditions, religious movements, and the artistic ideals of literature, painting and architecture on the development of music is carefully observed. Music is treated as one phase of the history of civilization.

The courses in Composition are of two orders, elementary and advanced. The elementary courses, continuing through

two years, analyze the materials of composition, consider the methods of their use, study the technique of composition as practised by leading composers, and offer an opportunity for acquiring skill in composition by the writing of exercises. The work in the advanced courses is creative rather than disciplinary.

The course in the study of music in its application to religious worship treats the subject historically, theoretically and practically. It has been devised for those who are to be entrusted with the conduct of services of divine worship.

Besides the above, graduate courses on the Symphony and the Song are offered. The course on the Symphony consists mainly of a study of the evolution of the symphony orchestra and of the work of symphonists from Haydn to Brahms and Tschaikowsky. The course on the Song takes up the history of song in the nineteeth century and is concerned chiefly with the aesthetics of song composition.

## VI. Biblical History and Literature

The aim in the elementary courses in Hebrew, Assyrian and Syriac is to give the student a thorough knowledge of the grammatical principles of these languages and to enable him to translate easy prose with facility. The course in Historical Hebrew is intended for those who have mastered the elements. In order to attain familiarity with the idioms of the language especial attention is given to translating at sight. Isaiah xl-lxvi is studied from the exegetical and historical point of view.

The courses in Biblical Literature and History on the basis of the English translation are intended for general students as well as for those who are preparing for special biblical work. They are coördinated so that the same courses will not be repeated in successive years, and aim to give a comprehensive view of different biblical fields. Since the officer in charge of the department will be away on a leave of absence during a portion of the present year, only one course of this character—

Hebrew Messianic Prophecy—is offered. The growing Messianic ideals of the different Hebrew prophets are studied in their chronological order, and their relation as a whole to the New Testament revelation is determined. The study also includes an investigation of the character, methods and aims of the prophets and the fundamental principles of prophecy.

The first object of the course in the Gospel of John is to gain, by means of a careful translation and analysis, a definite grasp of its characteristic thought and teaching. A knowledge of Greek equivalent at least to the work of two college years is required. Questions respecting the aim, date and authorship of the Gospel are treated in special papers and informal lectures.

A Biblical Research Club, including graduate and undergraduate students interested in the work of the department, has been formed to investigate special biblical subjects and to promote a more general and intelligent interest in the study of the literature and history of the Bible. The club meets once a month for the review of new books and current literature, reading of papers and free discussion. Arrangements are also made for special addresses before the club.

## VII. Rhetoric and Oratory

The main object of the courses in Rhetoric is to give a thorough training in English composition, though some attention is paid to the appreciation of excellence in style.

The work in Rhetoric 2, 3, 4, required of Freshmen who are candidates for the degree of Civil or Mechanical Engineer and of all Sophomores who have not taken the subject in the Freshman year, consists almost wholly of writing. During the year each student prepares twelve themes of from five hundred to one thousand words each, affording exercise in description, narration and exposition. These themes are criticised in detail by the instructors and then re-written by the students. Besides these long themes, short daily themes of a page each, in which the student is expected to tell what has interested him

during the day, are required during a large part of the year. The purpose of these is to quicken observation and to cultivate ease of expression. To adapt the teaching to the needs of the pupils severally, the instructors have frequent office-hours, at which the students have opportunity to talk over their work. At the meetings of the class such subjects as the choice of words, the structure of sentences, paragraphs and whole compositions, and the various methods of description, narration and exposition are discussed; models of style, as well as themes written by the students, are analyzed; some talks are given on current literature; and themes are written impromptu. For those who do not take courses 19, 20, 21 additional work is laid out to make the course equivalent to one of four hours.

Rhetoric 33, 34, 35, required of all Juniors, gives no drill in oral delivery but simply in argumentative composition. Each member of the class is expected to prepare a brief based upon a masterpiece of argumentation, and then to write four arguments containing between one thousand and fifteen hundred words each. Every argument is preceded by a brief, which the instructor first criticises. The arguments, like the long themes in the Sophomore course, are to be re-written. Likewise, as in that course, there are opportunities for frequent personal conferences with the instructors. At the meetings of the class the art of argumentation is discussed, parts of masterpieces are analyzed, and arguments written by the students are criticised. Since the subjects are taken from the current discussions in the public prints and from the various University courses, students may, by a proper choice of topics, make the course help directly to a knowledge of public questions or of their studies.

Like the work just described, that of the advanced elective courses in English Composition is distinctly practical. Rhetoric 16, 17, 18 aims to teach students to write easily and well, and devotes particular attention to the qualities of style apt to be lacking in literary productions of considerable length. Much writing is required, and every theme discussed in class.

The set lectures are few, and are made as practical as possible. The short themes teach pupils to write readily on such chance topics of interest as attract their attention from day to day. The long themes give practice in more careful and elaborate literary work. Pupils are exercised in description, narration and exposition. In the latter part of the year several long themes are joined in an organized series devoted to one topic, or they give place to yet longer single themes, to afford experience in literary construction on a large scale. The work in Rhetoric 5, 6, 7 is along much the same lines, though modified to suit more advanced students. Then, too, in order to make the course of special value to those intending to teach, there is some discussion of methods of teaching English composition.

The elective course in Oral Discussion is a link between the courses in composition and those in public speaking. Its objects are to give practice in collecting data for argument, to afford training in logical and forcible arrangement, to develop the power of oral statement, and to teach good methods of delivery. A debate occupying two consecutive hours is held each week. On each occasion four principal disputants take part; they are required to prepare briefs, with references, to be posted one week before the exercise. The other members of the class are expected to prepare themselves each time sufficiently to be able to make short arguments. Matter, arrangement and delivery are criticised by the instructors.

### Public Speaking

The purpose of the instruction in Public Speaking is to develop a natural and forcible manner of expression; not to make reciters or dramatic readers but effective public speakers. Constant emphasis is laid upon sincerity, information and broad culture as more necessary to success than any arts of elocution or gesture. Special attention is given to individual training, the correction of particular faults and the cultivation of individual powers. Each student receives as

many hours of private drill each term as the size of the class allows. After informal lectures giving instruction in the proper use of the voice, there are weekly exercises based on selections from representative orators. Each speaker is criticised by the instructor and by the class. The number of declamations required during the year is never less than six.

In the advanced course, public speaking is studied in a more formal and intensive manner, but here, too, practice predominates over theory. Some attention is given to reading aloud.

The Carpenter Prize speakers are chosen by a preliminary competition held during the second term. Ten are appointed, if so many show a sufficiently high degree of excellence. The competitors for this prize, and the Seniors who speak at Commencement, receive special instruction.

## VIII. English Literature and Language

The elementary courses in Old English are intended to serve as an introduction to the more advanced courses in language work and to prepare students to read ordinary prose and easy poetry. Course 12, a continuation of 10, 11, is devoted to the interpretation of Béowulf. Students who do not wish to make English a specialty, but wish to lay the foundation for an intelligent understanding of the English language, may take 39 as a continuation of either 10 and 11, or 27 and 28; but it is thought that the history of the language cannot profitably be studied by students ignorant of both Old and Middle English.

To students intending to make English a specialty are offered, in alternate years, courses 13, 14, 15 and 24, 25, 26; the former devoted to Old English phonology and dialectology, the latter to somewhat extensive reading in Middle English.

The work in Chaucer is linguistic, chiefly aiming to introduce the student to Chaucer's poetry and to enable him to read it intelligently. The linguistic course in Shakspere is very similar in aims and methods to the Chaucer course; some attention is given to the literary history and sources of the six

plays read, but this is made subordinate to the interpretation of their meaning. In neither course is any particular stress laid upon etymological problems.

The introductory course in English Literature is a general course for students who do not intend to pursue the subject further, and also a preparation for more advanced literary study. The aim is to cultivate the habit of thoughtful reading and the appreciation of literary form, and to give a general knowledge of the history of English literature. A good deal of reading is assigned in the principal poets and prose-writers from Spenser to Tennyson, selected works are studied more carefully in class, and lectures are given upon the characteristics of authors and the historical development of the literature. Short written tests are frequent.

Course 53, 54, 55 traces the development of English literature, outside the theatre, from the revival under Henry VIII to the close of the Elizabethan period proper. The various movements, or schools, are studied historically with some care, and the various fields of literature—poetry, prose romance, criticism, literary and religious controversy, travel, etc.—are covered in more or less detail; the chief figures, such as Spenser, Sidney, Raleigh, are studied as men and as authors. The course aims to cover the period as thoroughly as possible. It is meant primarily for advanced students.

Course 56, 57, 58 is a continuation of 53, 54, 55, though the student is not required to take the one as introductory to the other. The method of study in both will be much the same. The period from the accession of James to the Restoration will perhaps prove less difficult to the less advanced students than the earlier period.

Course 34, 35, 36 deals chiefly with Shakspere's plays as dramatic literature. All the plays are read, in chronological order, and ten or twelve carefully studied. Style, verse, plot, characters and thought are considered, and some comparisons with the classic drama are attempted for the purpose of bringing out in clearer relief the distinctive qualities of the romantic drama. As an aid to the appreciation of Shakspere,

some attention is paid to the history of the English drama and to literary, social and political conditions in Elizabethan England.

Course 31, 32, 33 deals mainly with the greater authors of the period. Political, social and literary conditions are dwelt on only so far as is necessary to a fair understanding of these authors. The chief works in prose and verse are read by the student outside of the class-room; in the class-room the character of each work is explained, and the personality of each author. The method is literary rather than historical.

Course 18, 19, 37 is confined chiefly to the greater English novels of the last two centuries; the earlier history of prose fiction is briefly sketched. The novel is studied as a literary type and as an expression of contemporary life and thought. Students who cannot devote eight or ten hours a week to reading should not elect the course.

In the course in English poetry from Burns to Keats the historical development of modern Romanticism receives considerable attention, but the larger share of time is given to interpretation and criticism of the greater poets of the period. The course chronologically follows 31, 32, 33, but may profitably be taken alone.

In course 46, 47, 48, the first term is devoted to Tennyson, the second to Browning, and the third to Arnold, Rossetti, Swinburne and other minor poets of the Victorian era. Matters of poetic method and technique are examined in considerable detail; but in the course as a whole the greater stress is laid upon a study of modern thought as it has found expression in poetry. Some of the work is difficult, and the course should not be elected by students who have no special aptitude for literary study.

Course 50, 51, 52 is intended to give a fair knowledge of English essayists of this century. A good deal of rapid reading is required, and some careful study of thought and style. The course is meant more especially for students who have only a general interest in English literature; but it may also be taken with advantage, as supplementary to 43, 44, 45 and

46, 47, 48, by those making a special study of the literature of the nineteenth century.

The course in American Literature deals with authors of both colonial and subsequent times. It discusses the literary forms which have been successively or contemporaneously developed, in the following order: history, biography, oratory, the essay, poetry, prose fiction. Instruction is given by lectures on the several periods and types, with examination of selections from the above-mentioned classes of writings. Systematic reading is required, with reports, abstracts and estimates, besides essays upon assigned topics. The result sought is a general acquaintance with the entire body of American literature, a fuller knowledge of the best of it, and a just estimate of its relative place and value in the field of letters.

## IX. History

The course of instruction in History continues throughout the Junior and the Senior year. During the first two terms of the Junior year it is required. Except in these two instances, all the courses are elective. All undergraduate elective courses are open to both Juniors and Seniors, except the courses in American history, which, it is thought, cannot be satisfactorily pursued until after the required course in European history has been completed.

Besides the general course in the History of Mediaeval and Modern Europe, opportunity is presented for the more detailed study of English History, of Islâm and the Crusades, of the Renaissance, of the Reformation, of the French Revolution and of European History since 1800.

A comprehensive course in American History is given during the first two terms of the Senior year. It is succeeded by a course consisting of practical exercises in American history, by which advanced students may be trained in original research and introduced to the higher departments and methods of historical study. The work in this course is carried on with great

freedom. Those pursuing it meet as a class only occasionally, by far the greater part of their instruction being given to them individually, among the books in the library.

To graduate students of history, besides the opportunity of following advanced undergraduate courses which they have not previously taken, lectures are offered on the principles of Historical Criticism, on Historical Bibliography, and on the development of Modern European Historiography. A practical course in the dissection of some portion of European history illustrates the first of these courses of lectures, and trains the student in method. Training of another sort is afforded by a course of lectures dealing with topics in the history of the United States, the topics being so selected as to illustrate in various ways the general fields of our constitutional and political history.

The Historical Seminary, conducted by the Professor of History, and including the graduate students and some of the most advanced Seniors, is an organization designed to foster by co-operation the practice of original research, to familiarize students with methods more advanced than those of the ordinary college class, and to incite them to interest and active participation in the higher branches of historical work. The Seminary of Mediaeval History, conducted by the Associate Professor of History, is designed to accomplish similar results with selected students from his classes.

## X. Social and Political Science

The undergraduate courses of instruction in Social and Political Science continue through two years. The courses of the second year are open only to advanced and graduate students. In both Social and Political Science a continuous and systematic line of study is presented, beginning with elementary principles and leading up to the discussion of present problems.

The courses in Social Science deal with the Principles of Sociology, with the Development of Primitive Civilization, and

with Modern Social Conditions and Problems. These are followed by courses in Social Philosophy and Social Theory and by special investigations. Certain qualified students are assigned to practical sociological work.

In Political Science elective courses are offered in the study of the Origin and Development of the State, its conditions, forms, end and functions, and in the comparative study of European Constitutions. Courses are also given in the study of the Constitutions and Politics of the United States, in International Law and International Relations, and in Diplomacy. These, with courses in the Development of Political Theory and in Roman Law, make a programme covering two years in political science.

The courses in Elementary Law will enable graduates of the University who do thorough work in the subjects offered to enter law schools with advanced standing and possibly to shorten their law course by one year. They will also give a good foundation to the student who expects to prepare for the bar in a law office. To secure the best results the courses offered should be taken consecutively, beginning in the Junior year with either 1 or 4. The first four courses in particular are of value to all who wish to know the general principles of the Common Law.

## XI. Political Economy

The work in Political Economy comprises an elementary course and six advanced courses, each of three hours a week.

The elementary course extends through the year and is open to Juniors and Seniors. This course is based upon lectures supplemented by reading and essays on the part of the class. The first term is devoted principally to a discussion of the nature of economics and the history of the development of economic life; the second, to an analysis of that life as we find it among the more advanced nations of to-day; the third, to a discussion of the strength and weakness of the

existing economic organization, the more important proposals for essential alteration in that organization, and special questions of present interest.

All the advanced courses are open to Seniors and Graduates who have satisfactorily completed the elementary course and to other students who have done an equivalent amount of work elsewhere. One of the advanced courses is always devoted to the History of Economic Thought, based on a study of the works of the most important writers; another, to the Methods of Economic Investigation. Each of the four remaining courses deals with some special economic topic of importance, the subjects varying somewhat from year to year.

## XII. Germanic Languages and Literatures

The study of German may be pursued four years as undergraduate work, in recitations three or more times a week, and may be continued by graduate students in advanced courses of one, two or three years' duration.

The main undergraduate courses are 1, 2, 3; 4, 6, 8; 46, 47, 48. They extend over a period of three years, in recitations three times a week. These courses are the centre of all the college work in the department. The aim is to lay a thorough foundation in the Germanic language and to give an introduction to the literature. Several courses are regarded as auxiliary and collateral: a lecture course of three hours a week through the year upon German Literature, a course of one hour in German Composition, three parallel courses of one hour each in Scientific German, and courses in Swedish, Danish, Norweigan and Dutch, and in Middle High German. See courses 10 to 18 and 42 to 45.

The graduate courses include elementary and advanced courses in Modern High German, Middle High German, Old High German, Dutch, Old Norse, Gothic, Germanic Philology and Germanic Mythology. These courses are designed primarily for students enrolled for advanced degrees. The aim in them is to lay a foundation in the early literature, languages,

mythology, history and institutions of the Germanic nations, and to make a comparative study of the languages. A Germanic Seminary is connected with these courses, in which graduate students do advanced work under the direct supervision of the officers.

The chief purpose of course 16 is to "orient" the student in the whole field of German literature and to prepare him for a more critical and detailed study of the New High German period of bloom. Lectures are given upon the history, institutions and character of the early Germans. The earliest pieces of literature are analyzed, the era of Karl the Great is carefully studied, and the great epics, with the lyric poetry, of the Swabian era are examined in detail, special attention being given to the *Nibelungenlied* and the *Meistersänger*. The Renaissance, the Reformation, and the Imitative School of the seventeenth century are discussed. Special topics are assigned to each member of the class for essays, and a weekly report upon collateral reading is submitted by each student. The modern period of literary bloom is then taken up, the life and works of the most prominent writers are carefully examined, and extensive readings are required from each author studied, as found in Müller's *German Classics*. Many selections are read aloud in the class. The phases of literary movement known as *Die Aufklärung*, *Der Göttinger Dichterbund* and *Die Sturm- und Drangperiode*, and the writers connected with each, are studied. Students are required critically to examine assigned topics and submit essays and reports.

In course 17 attention is given almost wholly to the life and works of Goethe and Schiller. Extensive readings are required from their works, and each member of the class must read one dissertation before the class. In course 18 special attention is given to the Romantic School.

The courses in Composition may be elected by any who have studied German not less than one year, but they can be taken only in connection with one of the regular courses. The purpose is to cultivate facility in writing the language.

The work in Dutch is philological and literary, very important for the specialist in German or English. If supplemented later by a study of the spoken language, it assumes great practical value.

In the first year of the study of Middle High German the student is introduced to the rich literature of the Swabian era. The larger part of the *Nibelungenlied* is read in class, and lectures are given upon the epic. Subsequently the greater part of Walther von der Vogelweide is read, as well as selections from the other Minnesingers, while in the most advanced course the Court Epics are the centre of study. All the courses in Middle High German are mainly of a literary character.

The courses in Old High German cover one year, and, like those in Gothic and Old Norse, enable students to broaden their foundation in Germanic philology. Attention is directed almost entirely to the linguistic side of the study.

In Gothic, the forms and syntax are studied with much care, as offering the best foundation for a comparative study of the Germanic dialects in their relation to the other Indo-Germanic languages.

The first year's courses in Old Norse are devoted to the study of the language and of those mythological works which are of first importance and general interest. The second year's courses are devoted to the prose sagas.

The courses in Germanic Philology are comparative—in one direction with Sanskrit, Greek and Latin, and in the other with the Germanic dialects in their old, middle and new literary forms.

The courses in Germanic Mythology consist of an examination into the number, character and credibility of our sources for a knowledge of Germanic mythology. The modern critical historical method is applied to the study, and by the aid of comparative mythology the origin of some of the most important myths that have impressed themselves upon Germanic literature is traced.

Many of the courses detailed above are of the character of seminary courses. The work in them is done under the immediate supervision of the instructors, at the rooms of the Germanic Institute, where all the members, officers and students meet once each month for the presentation of original papers and journal reports and for discussion. The purpose of the seminary is to concentrate and render effective all the advanced work of the department, to train the student in methods of literary and philological research by encouraging original investigations, and to impart that enthusiasm which is gained by association. Exceptional facilities for the prosecution of advanced studies in all branches of Germanic philology are afforded by the large and carefully chosen collection of books and works of art forming the CONANT GERMAN SEMINARY LIBRARY, a full account of which is given in later pages of this catalogue.

Special attention is given to candidates for advanced degrees. All the work of such candidates is under the immediate supervision of the head of the department, who meets weekly throughout the year each candidate preparing for the Doctor's examination.

## XIII. ROMANCE LANGUAGES AND LITERATURES

### FRENCH

Candidates for degrees are at their entrance into college examined in elementary French grammar and in the reading of easy French prose at sight. For those who offer German instead of French, a special course is arranged during the Sophomore year, though all students are strongly advised to do their first year's work in French before coming to college.

The work of the Freshman year, which is required, is devoted to the study of the language. The object of this course is to enable the student to read ordinary French with but occasional reference to grammar or dictionary. Great stress is laid upon the intelligent reading of French, and also upon

rapid translation, both at sight and after preparation, into good idiomatic English. A part of each hour is devoted either to the writing of French from dictation or to the translation of easy English into French.

Course 4, 5, 6 is devoted to the literary study of the great writers of the nineteenth century. Selections from the work of all the principal authors are read in the class-room, and a number of masterpieces are assigned for outside reading. At the same time linguistic accuracy is cultivated by daily exercises in composition and writing from dictation.

Two advanced courses provide for the careful study of the two great periods of French literature, the seventeenth and nineteenth centuries. In addition to the above, another course is offered, in which an effort is made to teach the members of the class to speak and write French.

All courses other than the above are intended for Graduates, or for Seniors desiring special attainments in French. For such students advanced courses in the Romance Literatures and in Romance Philology will be afforded by the head of the department, in accordance with the needs of applicants and his limited time.

### Italian and Spanish

In the introductory Italian and Spanish courses, the general aim is similar to that of the Freshman course in French, namely, to enable the student to read modern authors easily. For the advanced courses offered, the paragraph on graduate courses in French will apply. Attention is called to the course no Dante in English, which is intended as an elementary course in comparative literature, from the point of view of the great mediaeval world-poem. The fact that the poem will be studied in translation should recommend the course to a large number of students who have not the leisure to study many literatures in the original.

The graduate courses are conducted in the room containing the Library of the Romance Department, which is in constant use for all the advanced work.

## XIV. Pure Mathematics

Mathematics is prescribed during the Freshman year for all students entering college who are or intend to become candidates for degrees, and during the Sophomore and Junior years for candidates for the degrees of Civil Engineer and Mechanical Engineer. Except as thus specified, Mathematics is an elective study. The required courses are essential to a thorough knowledge of the elementary principles of mathematical science, which prepare the student for advanced mathematical work. They serve also to discipline the mind in careful analysis and strict logical methods of thought, and to develop the reasoning powers. They likewise cultivate the invaluable faculty of exact expression.

In the higher elective classes in the Pure Mathematics the aim is also two-fold: first, mental discipline for those students who do not intend to pursue the subject further; and, second, a thorough mathematical foundation for those who desire to make mathematical studies a specialty.

## XV. Drawing

Instruction in Mechanical Drawing is based upon pure mathematics. The aim is to teach men not simply how to draw, but how to think and investigate for themselves. Rules and formulas employed in problem construction are used only after they have been thoroughly discussed and satisfactorily proved. Both the theory and the practice of the subject are taught, and an effort is made to bring before the students those principles which will be most needed in handling the complicated problems of the mechanical world. All the work in the department is regulated by a schedule, which defines the nature and amount of work to be accomplished each week. Drawings which fall below the standard are rejected, and reconstructions required. In this way tendencies toward carelessness are corrected, and a good quantity and quality of work secured.

In Freehand Drawing, students are required to make sketches of models as they appear from individual points of view. The aim is to render the eye quick and accurate in observation and the hand skillful in representation. The course in Constructive Geometry is a direct application of pure mathematics. Problems are assigned with hints in regard to their solution, and students are required to investigate and report.

In Machine Drawing, machines are taken apart and fully explained. The various portions are then sketched, named, detailed and assembled. The assembly drawing, which is a combination of the details, is constructed from the details and not from the machine itself. In the later portions of this work, students are required to work from the drawings of other students as well as from their own.

The subject of Gearing is treated both theoretically, in the recitation-room, and practically by a series of problems worked out by means of drawing. Special attention is given to practical phases of the subject, such as methods of manufacture, proper proportions for smooth running, etc.

The courses in Machine Design are intended to develop the student's acquaintance with the simpler mechanisms and his familiarity with the calculations for strength; in the latter part of the subject the results of experience as seen in good current practice are constantly consulted.

The instruction in practical architecture bears the closest relation to that given in the department of Drawing, and happily supplements this at almost every point.

## XVI. Civil Engineering

The course of four years leading to the degree of Civil Engineer is designed to give students a thorough preparation, both in theory and in practice, for the profession of civil engineering. Special stress is placed upon the fundamental principles of mathematics and mechanics and their applications to practical problems. The student is trained to think and investigate for himself, and the spirit of original research is encouraged and cultivated.

The course consists entirely of prescribed studies. Students, however, who are not candidates for the degree of Civil Engineer are privileged to elect any subject in the course if they have the requisite preparation. During the Freshman and Sophomore years the work is essentially preparatory, and includes the general literary and scientific subjects indispensable in any technical course. The work of the Junior and Senior years is essentially professional, and includes the actual design of many engineering structures.

During the first term the actual preliminary survey and location for a railroad line from two to five miles long is made somewhere near the city of Providence, and the data thus obtained are mapped in the conventional manner. During the second and third terms, special attention is paid to the materials of construction, the general theory of railroad location and construction, and the line run during the first term is discussed in relation to the principles thus discovered.

The course in Hydraulics supplements courses 7 and 8 in Mechanics, which give the theoretical treatment of the subject. A prominent feature of the course is seminary work in various branches of Hydraulic Engineering, an assigned subject being investigated by the student and a short thesis thereon presented for discussion.

As a preliminary to the general subject of Structures the student is obliged to make detail drawings of an existing bridge and thus become familiar with the relations which the various members bear to each other. A thorough course in stresses is then given, the problems being solved both graphically and analytically. Finally the design of one or more trusses conforming to recent practice is required. Throughout the course, typical rather than exceptional forms of roofs and bridges are discussed.

Besides the general treatment of Masonry the course comprises the design of right and oblique arches and retaining walls, with reference to particular locations. Plaster models are made of many of the stones forming the arches as designed, and the details of stereotomy are thus shown.

In Sanitary Engineering the text-book is intended merely as a guide, seminary work and lectures being the main features of the course. The city of Providence offers many sanitary problems and many specimens of difficult constructions. Numerous visits to such are required, and, where possible, the details of work are shown and explained.

Laboratory investigations in strength of materials, use and adjustment of instruments, testing cements, etc., are a prominent feature of the Senior instruction.

The graduation thesis must be technical in character and embody the results of experimental or original research on the part of the student. The subject selected and scheme of treatment must be submitted to the professor for approval. As a thesis calls forth, to their fullest extent, the logical and discriminating powers of the student, it is given an important position in the curriculum.

## XVII. Mechanical Engineering

In an engineering course a great amount of scientific and technical study is necessary. Little opportunity is therefore allowed for elective studies. It is, however, endeavored in this course to give the student as much general work as possible. Great effort is also made to secure broad training by directing the student's attention first to principles and then to details, and by so conducting the specially technical courses as to develop the powers of reasoning and expression.

The studies of this course may be classified in three groups: first, those which give general information and training; second, mathematics, drawing and science, preparatory to technical work; third, strictly technical studies. For information concerning studies of the first two groups, reference may be made to other portions of this catalogue. The technical work may be summarized as follows:

In the course in Kinematics the operation of the most important mechanisms is carefully considered from both a theoretical and a practical point of view. Stress is laid on the

mathematical laws governing the motions of the parts of machines and upon the methods of solution of practical cases; when graphical solutions are possible they are pointed out and explained. A large number of practical problems are required to be solved.

The subject of Gearing, though essentially a branch of kinematics, is here treated both theoretically, with reference to the kinematical basis of the subject, and practically, as a branch of drawing. In the class-room is taken up the theory of spur, bevel and screw gearing, considerable attention being paid to proportions of teeth necessary for smooth running and to the conditions of ease of construction. Problems for analytic solution are given to illustrate the theoretical discussion. In the drawing-room, the student is required to make accurate construction of a series of problems, illustrating the ordinary proportions of spur and bevel gears, as well as the tooth outlines suitable in special cases.

The course in Theoretical Mechanics is designed to give the student, as far as possible, a knowledge of the methods of investigating mechanical principles, including the application of the calculus. Care is taken that a clear understanding is gained of all the steps in the deduction of formulae, that the student may be able to produce original forms or to modify those already in use to meet particular cases that may arise. Familiarity with the practical application of principles and the use of formulae is acquired by the solution of original problems illustrative of the subject-matter.

The courses in Machine Drawing described under Drawing are designed mainly with reference to the development of the student's power of representation. They are followed by courses in Machine Design, which are intended to put into practice the principles obtained in kinematics and mechanics. The first of the courses in Machine Design tends to develop practical familiarity with some of the simpler mechanisms and also to give the student experience in making proper modifications necessitated by one or more changes in an existing machine. In the more advanced courses the student's at-

tention is mainly directed to the calculation of the strength of the various elements of a machine or structure. Besides a large range of methods of design pointed out in the text-book, the student carefully investigates and solves a few practical cases of complicated construction, which he is required to design by both calculation and drawing. In the methods of design which are given to the student, the theoretical solution is always consulted when it is adequate; the constants used, however, are always compared with those used by good practical designers, and the student is advised to be influenced in his final decision by the results of the working rules found in the best hand-books or by rules derived from comparison of standard forms in current practice. Though the strength of the structure is the main feature of the more advanced courses in machine design, the student's attention is directed also to various practical details in the construction and use of machines and structures.

The treatment of the subject of Thermo-dynamics is logically complete from a mathematical and physical point of view, so far as it is presented to the student; it is, however, intended to have special bearing upon practical problems connected mainly with steam generators, steam-engines and other heat-motors. To accomplish this end the theoretical principles are, as far as possible, continually applied in a series of practical problems bearing on the engineering side of the subject.

Steam Engineering is treated by lectures with accompanying laboratory tests. The various types of engines and boilers are described, together with the methods and results of tests. The various methods of making power-tests are discussed in connection with this subject. The work in the laboratory includes tests on the power and efficiency of steam-engines and boilers, on the quality of steam, and on the calibration of the various pieces of apparatus used in testing. Students are required to hand in an accurate report of the result of each test.

In the course on Materials of Engineering, the sources, modes of manufacture and qualities of all the more important materials used in engineering work are treated. Special at-

tention is given to iron and steel. The results of the most recent tests on important materials are extensively quoted and discussed. Some attention is also paid to approved forms of structural details and to recent tests on important pieces of metal, timber and masonry construction. The subject is illustrated and applied, as far as possible, in practical tests in the Mechanical Engineering Laboratory, referred to below.

Courses in Shopwork are taken by candidates for the degree of Mechanical Engineer, during successive terms from the second term of the Sophomore year to the second term of the Senior year. They are intended to give the student not only a knowledge of the various tools and machines used in mechanical processes but also to make him familiar with the methods of accurate construction. The work begins with the ordinary operations of the carpenter and joiner. In pattern-making as much time as possible is given to details such as core-box, proper allowance for shrinkage, finishing patterns with special regard to ease in moulding, etc. The different mechanical processes and machine tools used in metal-working, and the operations for which the machines were particularly designed, are taken up later. It is intended, by means of a series of progressive exercises, to develop a maximum amount of manipulative and constructive skill in the handling and making of various tools and parts of machines.

A graduation thesis is required from all students taking the degree of Mechanical Engineer. It may be based either on extended independent study, on original investigation by the student, or on original design of some complicated machine. In any case it must exhibit satisfactory ability in the student as an engineer.

## XVIII. Chemistry

The department of Chemistry is intended to afford instruction in general principles of Chemistry, in Analytical Chemistry, and in the practical applications of these subjects.

Opportunity is afforded for studies in Metallurgy, Medical Chemistry, Agricultural Chemistry, and in the chemistry involved in the bleaching and dyeing of textile fabrics.

The courses are not confined to undergraduates, other persons, if prepared to pursue the study to advantage, being admitted; but a knowledge of the general principles of chemistry is absolutely necessary to profitable work in any of the more advanced courses.

The course for the first year covers three grand divisions: the study of the non-metals, of the metals and of the carbon compounds. The course for the second year includes qualitative analysis and elementary quantitative analysis. Work in the other branches mentioned may follow that specified for the first two years. In all cases students perform laboratory work and attend lectures. The lectures in this department deal with the experiments of the students and also with chemical philosophy, stoichiometry and new applications of chemical substances in recent inventions.

Course 1, 2, 3, called Descriptive Chemistry, includes also Experimental and Theoretical Chemistry. The lectures are illustrated by experiments and colored charts and by blackboard exercises.

The two courses in Qualitative Analysis include a study of the properties of the metallic elements together with their separation from certain of their compounds, also of the chief non-metals and the acids produced by them.

Course 6, Elementary Quantitative Analysis, includes a study of quantitative precipitations and separations of the most important elements and compounds, and a somewhat thorough review of the principles upon which quantitative apparatus is constructed, including the theory of the chemical balance, the merits of the different systems of weights and measures, the use of burettes, graduated flasks, etc.

Course 7, 8, 9, Advanced Quantitative Analysis, includes the assaying of metallic ores, the analysis of agricultural materials, including commercial fertilizers, the testing of chemicals used in textile establishments, etc. Students are also

required to prepare, and read before the class, essays on a series of assigned subjects relating to chemical manufactures.

Course 10, 11, 12, Organic Chemistry, includes an extended series of exercises in the preparation and testing of organic compounds. These compounds are so selected as fairly to represent the different branches of this important department.

Course 15, 16, Medical Chemistry, includes a thorough study of certain animal products, such as normal urine, morbid urine, various calculi, etc.

Course 20 includes the scouring and dyeing of wool, the cleansing of wool in the fleece, the removal of burs, the preparation and use of the necessary mordants, dye-stuffs, etc.

The Chemical Laboratory is open to students from 8.30 A. M. to 3.30 P. M. on every week-day except Saturday.

## XIX. Physics

Course 1, 2, 4 is designed for those who have had little previous training in physics, and presupposes only a good knowledge of the elementary mathematics, such as is offered in Mathematics 1, 2, 3. Instruction is given by lectures amply illustrated by experiments. The progress of the student is tested by weekly written exercises, all of which are carefully corrected in detail by the professor and the instructors, and serve as models for the term examinations. The entire course, extending through three terms, is essentially a unit. It is the aim of these lectures to set forth the principles of modern physics, and to exhibit the gist of physical method and thought, as accurately as this can be done in an elementary course. Daniell's Text-book of the Principles of Physics is closely followed. Particular stress is placed upon dynamics, in the direction of the scheme of development laid down in Kelvin and Tait's book.

The general laboratory course 5, 9, 10 is arranged to follow the work in course 1, 2, 4 as closely as possible. The work consists entirely of quantitative experiments performed by the student, and every effort is made to give him thorough famili-

arity with physical apparatus and the scientific methods of exact measurement. Every student is required to present a written report of each experiment performed, and his standing is based on the neatness and accuracy of these reports.

Electrical Engineering is the subject of Physics 11, 12, 15. During the first and second terms the instruction consists of class-room work based on standard text-books, supplemented by collateral reading and numerous problems. The course embraces theoretical and practical study of dynamo-electric machinery, and methods of transmission and distribution of light and power by electricity. In course 12 special attention is paid to alternating currents. In the third term opportunity is offered students to gain practical experience in methods of testing and using the machines, determining "characteristic curves" and solving special problems of measurement in electrical and magnetic quantities. Weekly reports are required, upon the accuracy and neatness of which the student's standing is based.

The advanced courses are intended to develop the elementary mathematical theory of the subjects treated, and to lay a broad foundation for the future study of theoretical physics. Students electing advanced work are expected to have a good command of mathematics and to have mastered the general principles of physical science as set forth in the elementary courses.

Course 13 is intended to present in a mathematical form the dynamical problems that lie at the basis of all theoretical physics. Numerous original problems are assigned from time to time, and occasional written exercises are held to test the progress of the class. The purpose of course 14 is to develop the fundamental problems and theories of thermodynamics and to apply these to the theories of heat-engines and the dynamical theory of gases. In course 16 the general equations of motion of a perfect fluid are developed and applied to the solution of simple problems. In course 20 the importance of Fourier's method of harmonic analysis in the solution of partial differential equations is shown, and illustrated by examples

taken from the analytical theory of heat, from the theory of alternating electric currents, from the acoustic elastics, and elsewhere. The allied treatment of physical problems by the aid of spherical harmonics, Bessel functions and Lamé functions, will be included in this course.

The advanced laboratory courses 17, 18, 19 are intended for those who are already familiar with the use of physical apparatus and are capable of carrying on investigations more or less independently. Special problems are assigned to each student, and he is referred to original sources for methods of solution. Great care is taken to develop accuracy of observation, and neatness and clearness in the written reports of experiments, all of which are criticised by the professor in charge. A permanent record of the results obtained is registered in a book kept for that purpose at the laboratory, the name of the observer and date of observation being inscribed in the usual way.

Course 26, 27, 28 is a series of lectures designed primarily to meet the requirements of graduate students. The mathematical theory of electricity and magnetism is developed, and the more important problems of electrical science are discussed from the standpoint of Maxwell's "Treatise." Illustrated problems are assigned to the student for solution, and he is supposed to have sufficient command of mathematics to read such authors as Clerk Maxwell, Lord Kevlin, J. J. Thomson, etc.

Course 29, 30, 31 is intended to furnish an introduction to modern theoretical physics. It is primarily offered to undergraduates and only a fair working knowledge of the calculus will be required. The endeavor is made to take up the classical problems of mathematical physics in regular order, and to carry the discussion of each as far as circumstances permit. Instruction is given entirely by lectures. Candidates entering for the degree of Master of Arts with a major in physics will be held responsible for this course or its equivalent.

The Physical Laboratory is open daily, except Saturdays, from 9 A. M. to 4 P. M., for those whose previous training war-

rants their undertaking original investigation. When necessary, special rooms are allotted for such work, and the instructors in charge are glad to supply every facility consistent with the regular work of the laboratory.

Courses 13, 14, 16, 26, 27, 28 are designed primarily for graduates. Students entering for the degree of Master of Arts with a major in physics, are expected to do original work, and the degree must therefore be taken in residence. For students *in absentia*, with a minor in physics, the requirements in physical theory are quite as advanced as for students in residence with a major in physics; in other words, such students must be well read in mathematical physics. The department is able to offer students every reasonable facility both for research work and for the study of the higher problems in physics; it is not able to offer much encouragement to those wishing to take degrees *in absentia*.

## XX. Astronomy

The courses of study offered in Astronomy are eight, three lecture courses in general astronomy and five laboratory courses in practical astronomy. The lectures courses are designed to acquaint the student with the fundamental conceptions of the science, the methods of its professional study, and the present state of our knowledge of the heavenly bodies. A general treatise on astronomy is made the basis of these courses, and is supplemented by lectures and by abstracts upon assigned topics prepared by members of the class. Observations of a simple sort are required of each student in order that his knowledge may rest on a more stable foundation than that of mere book-learning. The laboratory courses comprise a technical study of the theory of astronomical instruments, and practice in their use. The sextant, transit, zenith telescope and equatorial are taken up in turn, and the astronomical problems of Navigation and Geodesy solved by actual observation and calculation.

## XXI. Zoölogy, Geology and Anthropology

### Zoölogy

General Zoölogy is taught to the Juniors and Seniors by lectures, by the use of a text-book and by demonstrations. It is the aim to adapt the lectures to the needs of the general student. The principles of zoölogy, the laws of animal morphology, the development of the animal kingdom from monad to man, and the relations of animals to the world about them and to man are discussed, as also the subjects of heredity, hybridity, the variation of species, and the views now held by different schools of evolutionists.

The course in the third term is devoted to a discussion of the factors of organic evolution, including segregation or isolation, geographical distribution, dimorphism, heredity, the variation of species, the influence of the environment, the effect on organisms of changes of climate, of temperature, light, darkness, food, parasitism, natural and sexual selection. The history of the rise of the theory is also given, as well as the principles of Lamarckism, Darwinism and Weismannism.

### Geology

Instruction in Geology is given by means of lectures, laboratory work and field excursions, with especial reference to the geology, structural and economic, of Rhode Island. The lectures are aided by diagrams, models in wood and plaster, lantern views illustrating volcanoes, earthquakes, glaciers and other geological phenomena, and fossils.

Through the kindness of Commander Bartlett, U. S. N., two large models from the office of the United States Hydrographic Bureau, Washington, one of the Atlantic ocean-bottom and one of the Carribean sea-bottom, have been placed in the lecture-room. Additional models in plaster and *papier-maché* were added in 1895. Many lantern slides illustrating the formation of coral reefs, vulcanism and glacial geology have also been procured, as well as numerous casts and fossils.

The instruction includes a brief course of laboratory work in elementary Mineralology and Lithology. Many duplicate crystals have been purchased, and the students are allowed to use them freely in their work. A special study collection of minerals and rocks has been formed.

The instruction in Economic Geology consists of lectures and text-book drill on common rock and vein-forming minerals, useful minerals, ore-deposits and ores, building stones and road materials. The course is adapted to the needs of students in Civil Engineering.

### Anthropology

Instruction in Anthropology is offered as a Senior elective in the third term, consisting of a course of lectures on the physical or natural history of Man. It embraces the principles of Ethnology, Ethnography and Prehistoric Archaeology. The course treats of man as related to other primates, including the differential characters of man; the origin of man; the human races; the prehistoric races and the antiquity of man; language and race; writing; the arts of life; amusements; primitive culture, including folk-lore, myths, primitive religious cults; child-study; and primitive society.

The course is illustrated by a series of bone, stone and bronze relics of the prehistoric races of Europe, by American stone and bone implements, by collections from New England shell heaps, and by lantern views illustrating the fossil races of man and his art-remains in the Old World. Essays and collateral reading are required from the class.

This course, with the courses on zoölogy and geology, is designed to present a connected outline of the history of creation, including the evolution of the North American continent and of the life upon it, as well as the origin of man and of primitive culture.

## XXII. Comparative Anatomy

The general system of study in the department of Comparative Anatomy extends through four years, and is specially planned for those who intend to enter medical schools, though

certain less technical courses are regularly elected by students who wish to gain a general knowledge of biology as a foundation for, or as an extension of, courses in zoölogy, botany, social science, ethnology and psychology.

Comparative Anatomy 15 and 1 are introductory courses in practical vertebrate dissection, and should be elected by those who wish to gain a knowledge of human anatomy and physiology. Both courses are prerequisite to further work in the department. In course 15 the anatomy of the frog is critically studied; students are required to spend six hours each week in the laboratory and are taught methods of dissection and anatomical preparation. This is followed, the second term, by course 1, which treats of mammalian anatomy; six hours each week are spent in the dissection of the cat. These courses are offered as electives to Freshmen on the Bachelor of Philosophy course, during the first and second terms, and may be taken by Sophomores, Juniors and Seniors.

The location of the University upon the shores of Narragansett Bay offers exceptional opportunities for invertebrate dissection; and a course of study, Comparative Anatomy 2, as a continuation of 15 and 1, on the anatomy of the lower and intermediate animal forms, has been arranged for the spring term. Living marine animals are brought to the laboratory, and starfish, sea-anemones, mollusks, marine worms and crustaceans are dissected and thoroughly studied. During the term a limited number of collecting excursions are made to localities along the shore.

The work of the second year, open only to those who have creditably passed in the courses above mentioned, is as follows:

Comparative Anatomy 3 and 4 extend through the fall and winter, and are largely devoted to human anatomy. The several systems, bony, digestive, circulating, reproductive and excretory, are comparatively studied, and the anatomical collections of the University are made of practical use. In addition to the regular lectures, occasional lectures are delivered by physicians who have given attention to certain special sub-

jects; and students who show particular interest in the work are permitted to attend the clinics at the Rhode Island Hospital.

Normal Histology, course 10, is offered, in the third term, to those who have creditably passed in previous courses in the department. The principles of microscopic technique, the preparation of histological material and the structure of animal tissues are studied practically.

Comparative Anatomy 16 and 17 are continuous courses on the morphology of the nervous system. The fall term is devoted to the organs of sense, and the winter term to the brain and spinal cord. These courses are intended to acquaint the student with the gross anatomy and the microscopic structure of the nervous system in mammals and more especially in man; attention is also given to the phylogeny, embryology and physiology of the nervous system and to special nerve-methods in micro-technique.

Physiology begins the third term of the Junior year and continues through the Senior year. Preparation in Chemistry 1, 2, 3, 4, or an equivalent, is pre-requisite. Course 18 embraces the chemistry of the proteids, carbohydrates and fats. Course 19 is devoted to the chemistry of salivary, gastric and pancreative digestions, and the blood and bile. Course 20 is experimental physiology of muscle, nerve, circulation and respiration. Course 21 includes the qualitative and quantitative analysis of certain constituents of the animal body, as muscle, nerve, milk, etc. Students taking this course must have a thorough knowledge of qualitative and quantitative chemistry.

Bacteriology, course 9, is a practical laboratory course requiring six hours or more of attendance each week. The course includes the preparation and microscopic study of bacteria; the preparation of culture media; isolation; systematic study and delineation of unknown species; qualitative and quantitative biological examination of water, milk, air and soil; methods of determining pathogenic properties of bacteria; methods of sterilization and disinfection; and special work in pathogenic forms.

Comparative Embryology, course 8, is planned with the view of giving a general idea of the principles of embryological development, such as are involved in the phenomena of fertilization and clearage of the egg, metamorphosis, organ-formation, etc. Emphasis is placed upon the comparison of different ova and embryos. Among the invertebrates the simple eggs of jelly-fish, star-fish and worms are compared with the more modified eggs of crustacea and insects; and among the vertebrates the frog, fish and mammalian eggs are critically studied.

## XXIII. Botany

Instruction in Botany is given by means of lectures and laboratory practice, collateral reading and essays being also required. The course occupies two years.

The first year is devoted to General Morphology and to practice in analyzing and describing plants. A few difficult families, such as *Compositae*, *Cruciferae*, *Umbelliferae*, *Grasses*, *Sedges* and *Ferns* are especially treated. In the second year extra-regional plants and mosses are studied.

Original work and observation are encouraged. Students are required to make illustrative drawings from the objects studied. It is designed in all cases to foster independent reasoning and thoughtful comparison.

## XXIV. Military Science and Tactics

Instruction in these branches is given by an officer of the United States Army, regularly detailed for this purpose. For two hours per week during the fall and spring terms and one hour per week during the winter term, military drill, accompanied by the appropriate theoretical explanations, is required of all Freshmen and of all special students of the first year, unless they are excused for physical disability or other sufficient cause. Each of these students is required to provide himself with the University uniform—blouse, trousers, cap and gloves. Neat and very serviceable uniforms are furnished

through the University, at a cost not exceeding $12 apiece. All necessary arms, ammunition and equipments are provided by the United States Government.

The infantry instruction embraces the school of the soldier, of the company, and of the battalion in close and extended order, besides drill in ceremonies and in small-arm gallery and target practice. The artillery instruction includes the manual of the piece, mechanical manœuvres and firing drill. Target practice is held under the immediate supervision of the commandant, and every precaution taken to guard against accident.

Officers are selected and appointed irrespective of class, according to proficiency and particular fitness as determined by competitive examinations. Artillery detachments are selected by the commandant from the students most accomplished in infantry drill.

On the graduation of each class, the names of such students as have shown special aptitude for military service are reported both to the Adjutant-General of the United States Army and to the Adjutant-General of the State of Rhode Island. The names of the three students most distinguished in the studies and work of this department are, upon graduation, inserted in the *United States Army Register* and published in general orders from the head-quarters of the army.

## XXV. Books and Libraries

The purpose of the courses in this department is to furnish a working acquaintance with Books and Libraries. The treatment is elementary and does no more than introduce the student to the problems of advanced bibliography, though it aims to fit him to pursue the subject more thoroughly, either alone or in the special library schools. Since general knowledge is all that it is attempted to give, training in library work is not undertaken.

Each of the two main subjects occupies one term, and is treated both historically and practically. Books are studied first, and their beginnings are traced from the earliest human

records, through their development in Egypt and elsewhere, down to the literary activity of Greece and Rome. The interesting story of the transmission of ancient literature across the dark ages leads to mediaeval books, their character and conditions of production. The development of printing is followed from its first suggestions down to the condition of the art represented by the modern book, which is considered in both its excellences and its defects. Publishing and bookselling are also reviewed in their origin, growth and influence upon literature. In connection with authorship some of the fundamental requirements in book-making and the preparation of manuscript are noted. The use of books is treated under Reading, in its purposes, subjects and methods; while, as an important division of this topic, a separate lecture is devoted to periodical literature.

The course in Libraries is complementary to the preceding, and studies historically the libraries of the ancient world, the mediaeval world, modern Europe and America. It then takes up certain of the most important departments of library work, such as classification and cataloguing, and reviews the general problems of library administration. A separate lecture is devoted to the educational position of the library, and another to the important subject of reference books.

The courses cover one hour a week during the second and third terms, and are given in the form of lectures by the instructor, with oral reports and written discussions by the students.

## EDUCATIONAL PRIVILEGES FOR WOMEN

By vote of its Corporation on September 2, 1891, the University opened all its examinations to women. By a further vote on June 21, 1892, it opened all its degrees to women. By a third vote on June 23, 1892, to women already holding a baccalaureate degree, and to other women of liberal education who may secure special permission, it opened, on the same terms as to men, all those of its courses of instruction which are intended for graduate students.

That is, so far as its graduate department is concerned, the University places women on exactly the same footing as men. In respect to instruction, examination and degrees, the two sexes are treated precisely alike. The expenses, too, are the same.

In undergraduate studies the University offers to examine all women candidates, and to crown with any of its degrees every woman candidate who passes all the examinations required for the degree sought; but, in this department, the University, as such, does not yet offer to women any classroom instruction. Undergraduate instruction for women is, however, provided otherwise; see below.

The conditions of the examinations for women upon undergraduate work are as follows:

Women take entrance examinations at the same times and places and under the same conditions as men. See pages 34 to 42 inclusive. But women candidates may present certificates in place of entrance examinations, subject to the same conditions which apply to men.

To be admitted to advanced examinations, candidates must have passed all entrance examinations, as well as all examinations which cover the work of previous terms. All examina-

tions for women in college studies are to be taken at the University, noneelse where. Reports of proficiency are given after all examinations. Upon the satisfactory completion of any minor course of study, candidates are given certificates of their attainments, while those who complete with credit any of the regular curricula receive diplomas.

With the erection of the Women's College into a department of the University, which will probably be accomplished by the end of the present college year, the undergraduate examinations will cease to be open to women not regularly enrolled as students in the Women's College.

# THE WOMEN'S COLLEGE

LOUIS FRANKLIN SNOW, A. M., DEAN

Soon after the vote of the Corporation opening the examinations of the University to women, it became evident that, if women were to profit by this privilege, some means of preparing them for the examinations must be provided. This need was at first met unofficially. Instruction was given in the studies of the Freshman year to a small number of women by the instructors regularly in charge of those subjects in the University. The number of applicants for this unofficial instruction increased rapidly, and it soon became necessary to provide an entire series of college courses. This was done, and the work fully organized under the direction of the present Dean; but the Women's College still remained merely an independent institution having no legal connection with the University.

On June 18, 1896, however, the Corporation passed a vote by virtue of which the Women's College will become legally and officially a part of the University as soon as the building now in process of erection for the College is completed and turned over to the University. The following are the main provisions of the vote:

There is hereby established a department of the University to be known as the Women's College in Brown University.

The President of the University shall be charged with the general direction, supervision and government of this College, as of other departments of the University.

The immediate charge of the College in respect to registration, teaching, government and discipline shall be devolved, subject to the direction of the President, on the Dean of the Women's College, to be elected annually by the Corporation.

The instruction in the Women's College shall be given by the professors and instructors in Brown University.

Brown University examinations shall hereafter be open to women only when they are registered in the Women's College or as graduate students.

The Corporation will receive gifts of money to found scholarships, fellowships and professorships in Brown University for the behoof of its women students, and for the general purposes of the Women's College, and will hold and administer such funds as separate and distinct from the general funds of the University.

## Entrance Examinations

The requirements for admission to the Women's College are, of course, the same that the University demands of men ; and the entrance examinations for women are held at the same times and places and under the same conditions as those for men. In place of entrance examinations, certificates may be presented from duly authorized schools. For full information on all these points, see above, pages 34 to 42.

## Courses of Instruction

In all the required studies classes are formed which are taught by the professors and instructors who have in charge the corresponding classes of men. Information in regard to the requirements for the various degree may be found on pages 44 to 48 above.

The elective courses are identical in character with those offered to men, since they lead to the same examinations ; and it is the aim of the Women's College to make available for its students every elective course for which there is a demand. The list given on pages 49 to 54 of this catalogue may, therefore, be taken as indicating the range of choice. More precise information as to the courses offered is given each year in the circular issued by the Women's College at the beginning of the summer vacation.

Students who do not wish to become candidates for a degree are admitted to select courses of any extent, consisting either

of special work in a single subject or of general studies for one term or more. Each applicant for registration in such a course must present to the Dean sufficient evidence of her ability to pursue successfully the course chosen. Moreover, every select student, unless specially excused by the Dean and by the professors in charge of her subjects, must take the regular examinations in those subjects.

## Examinations

As a rule, women take the same examinations offered to men, and at the same times and places. When this is impracticable, and a separate examination is necessary, the two examinations are made as nearly identical in character as possible.

Reports of proficiency are given after all examinations. Upon the satisfactory completion of any minor course of study, candidates are given certificates of their attainments, while upon those who complete with credit any of the regular curricula the corresponding degree is conferred by the Corporation of the University, in accordance with its vote of June 21, 1892.

Before each University examination period the Dean of the Women's College files with the Registrar of the University a list of all undergraduate candidates for University examinations who are approved by the instructors in the College, thus certifying to the fitness of the candidates to undertake the examinations; but no candidate is approved whose term-bill or examination-fee is not paid or satisfactorily arranged for at least five days before the beginning of the examination period.

## Physical Culture

Admirable arrangements for Physical Culture have been made, whereby the privileges connected with the new and elegant gymnasium of the Providence Athletic Association are, on certain days, open to the students of the Women's College. Exercise is taken under the personal supervision of a competent lady instructor. For this gymnasium privilege a special fee is charged.

## Expenses

Upon the completion of the new building, when the Women's College becomes technically a part of the University, students in the Women's College will pay the same fees as other undergraduate members of the University. The special fees charged for women's examinations will be abolished. At present the charges are as follows:

Tuition: Each full course of studies at the Women's College, involving the usual sixteen hours of class-room attendance and instruction a week, costs $100 per year. No deduction in tuition is made on account of absence.

Incidentals: Every candidate for a degree pays $12.50 toward incidental expenses (printing, service, etc.).

The incidental expenses, and one half the tuition are to be paid in advance. The remainder of the tuition is due January first. Examination fees, laboratory expenses, etc., are to be paid two weeks before the close of a term.

Brown University examination fees for women are arranged according to the following schedule:

Preliminary Entrance Examinations: $5 for a full set.

Regular Entrance Examinations: $3 for examinations leading to a single course, $10 for a full set.

Term Examinations: $10 for each full set.

Matriculation: Every member of the Freshman class pays, upon admission to the College, a matriculation fee of $5.

Graduation: Every member of the Senior class pays, at the close of her course, a fee of $8 for her diploma and other expenses connected with graduation.

Select students at the Women's College are charged as follows:

Instruction: $2.50 per term, or $7.50 a year, for every hour of instruction per week.

Registration: Upon admission to any term-course, a registration fee of twenty-five cents.

Examinations: At the rate of seventy-five cents for a one-hour course.

## Scholarships and Premiums

The Sarah E. Doyle scholarship for young women, consisting of one thousand dollars, has been founded by the lady whose name it bears, the income to be applied toward the payment of the tuition of students in the Women's College who have been prepared for college in the Providence High School.

The sum of one thousand dollars has been paid to the Treasurer of the University to be known as "The Sarah Sutton Scholarship for young women, founded by one of her eight daughters." The donor reserves the right to nominate candidates for this scholarship for a certain number of years.

The Rhode Island Women's Club annually devotes the income of its Churchill Fund toward the payment of the tuition of some worthy student in the Women's College.

The Gaspee Chapter Daughters of the American Revolution Prize of forty dollars, offered by the Gaspee Chapter of D. A. R., is to be paid annually to that student in the graduating class of the Women's College who shall present the best essay upon some topic in American history.

This prize was awarded for 1895-96 to Miss Grace M. Cleveland of East Providence, for an essay upon "The Naval History of Rhode Island in the Revolution, including Privateering."

The topic for the year 1896-97 is "The Tories of New England and their Cause." Each essay is to bear an assumed name, but to be accompanied by an envelope marked with such assumed name and enclosing a sheet of paper with the candidate's real name and address. The essays must be handed to the Dean of the Women's College before May 15, 1897. The award will be announced on Commencement Day, when the topic for the ensuing year will be named.

The students of the Women's College are entitled to compete in all examinations for premiums and prizes offered by Brown University; see below. Women candidates successful in first-premium contests receive collateral prizes awarded by the Dean.

## Boarding

Ladies from a distance wishing to avail themselves of the educational opportunities offered by the University can find homes in excellent private families in the neighborhood of the College. Every effort will be made to arrange for any who may apply either to the Dean or to the President.

Further information of the work of the Women's College may be secured and catalogues obtained by addressing the Dean.

# THE UNIVERSITY EXTENSION

Professor Wilfred H. Munro, A. M., Director

The purpose of the plan for the Extension of University Teaching is to afford the benefits of this teaching to those who cannot attend a University. Lecture courses are given in any place easily accessible from Brown University, upon any subject for which there is a sufficient popular demand. A course of ten weekly lectures is intended to cover about the same ground which a college class would go over in ten weeks. The teaching scheme comprises lectures, class-work, essays, reports, etc. In such subjects as German, French, Spanish, Italian, the work is similar in every respect to that of the college class-room. A voluntary examination is held at the close of each course, and certificates are awarded to those who pass it.

During the academic year 1895-96 Miss Emily J. Rothwell of Providence passed her seventh examination in University Extension courses and thereby won the right to a University Extension Certificate.

The University charge for a course of lectures is $100; besides which the Centre is required to pay the traveling and hotel expenses of the lecturer.

Experience has shown that the best work can be done in small classes, of from thirty to fifty persons, and that an attempt to popularize a course is unwise. The end is not to amuse but to teach.

It is recommended that each Centre charge a fee of $3 per person for each course. This will necessitate a guaranteed attendance of thirty-five people. Where several courses are carried on by the same Centre, an average attendance of thirty-five should be secured.

All communications respecting the Extension Work should be addressed to Professor Wilfred H. Munro, Director of the University Extension, Brown University, Providence.

# LIBRARIES

## The University Library

The University Library dates from the year 1767, when the Rev. Morgan Edwards collected books for it in England. In 1843, when Professor Jewett's Catalogue was printed, soon after the removal of the books from University Hall to Manning Hall, the Library contained ten thousand volumes. In 1878, the date of their transference to the present building, the volumes numbered forty-eight thousand. At present the total number, including the Harris Collection of American Poetry, the collection of the Soldiers' and Sailors' Historical Society, and the books in the various seminary and departmental libraries, amount to ninety thousand bound volumes and upwards of thirty thousand unbound pamphlets.

The main library is stored in the beautiful building which the University owes to the munificence of the late John Carter Brown. The style of the building is the Venetian Gothic. The arrangements are commodious, and the whole structure is strictly fire-proof.

The Library has recently been re-arranged on the system of classification first devised for the library of the Boston Athenaeum. On the first two floors are shelved the books most in use, the entire west wing of the Library on the first floor being given up to History, the north wing to Periodicals and Fine Arts, while the east wing is occupied by works on Language and Literature. In a separate room on the second floor is shelved the Harris Collection of American Poetry. This collection, founded by Albert G. Greene, and extended by C. Fiske Harris, was bequeathed to the University by the late Senator Anthony. It numbers over six thousand bound volumes, and is perhaps the largest collection in the world devoted to its special subject. The collection of the Soldiers' and Sailors' Historical Society consists of books, pamphlets and maps relat-

ing to the Civil War. They are placed in handsome walnut cases on the third floor. Near them is the case containing the George Henry Smith collection of newspaper cuttings from 1861 to 1865, neatly arranged in folio volumes, which constitute an invaluable mass of material relating to the history of the Rebellion. On the third floor are also kept certain other collections, such as works devoted to Rhode Island History, Brown University, Baptist History, Bibliography and Patents, besides many thousand volumes of works least frequently consulted, all arranged according to the classification adopted for the lower floors.

All purchases are carefully made with reference to the needs of the different departments in their work of research, while at the same time there is kept in view the development of a library of general culture for the use of the students. Though many of the volumes are rare and costly, free access is allowed to the shelves. Upon the corner tables in the central reference room, on the first floor, are kept the latest numbers of the standard periodicals, American and foreign. Behind them, conveniently arranged, are books of reference, while the shelves on the main table are devoted to books reserved by the departments.

The Library Fund amounts to fifty-seven thousand dollars. Of this sum ten thousand dollars is a bequest from the late Professor Gammell, for the purchase of books relating to the history of the United States. Ten thousand dollars constitutes the Olney Fund, for the purchase of botanical books and plants. The Diman Memorial Fund of ten thousand dollars is for the purchase of works on mediaeval and modern history. The remainder forms the Library Fund proper. To this the Hon. Nicholas Brown contributed ten thousand dollars. It also includes a bequest of five hundred dollars from President Wayland, and one of a thousand dollars from the late Albert J. Jones. Additions to these funds are earnestly requested.

The Library is open to readers during term time from 9 A. M. to 10 P. M. on week-days, and from 1 to 10 P. M. on Sundays; books may be taken out only on week-days, between 9 A. M. and 5 P. M.

## The Germanic Institute and Library

Two commodious rooms in Sayles Memorial Hall have been set apart and furnished for the use of the Germanic Institute. In these rooms is the Conant German Seminary Library, a special collection for the use of the Germanic department, selected by Professor Williams in Germany, in the name of the principal donor, Hon. Hezekiah Conant. Many other generous contributors have added to the fund, until now the library contains over six thousand selected volumes, including editions of all the principal writers in German literature; a large collection in philology; all the leading literary and philological *Zeitschriften;* many works upon German history, the history of German literature, law, art, palaeography and geography. The library is especially rich in works of the Middle High German period and in Goethe and Schiller literature. It also abounds in works of art which illustrate the subjects taught, bronzes, copper and steel plate engravings and illustrated books. A Scandinavian alcove will be added and the other sections still further enriched. All the officers of the department have their private studies in the institute and are thus brought into daily contact with their advanced students. The rooms are open from 8 A. M. to 10 P. M., and in term time one or more of the officers may be found there during these hours.

## The Albert Harkness Classical Seminary

A large room in Sayles Hall is occupied by the Albert Harkness Classical Seminary, founded by Professor Albert Harkness, Ph. D., LL. D., and named in his honor. It is supplied with a special library of fifteen hundred volumes, purchased with funds generously contributed by friends of the University interested in classical studies. In selecting the books, the requirements of a good working library were studied with particular care, and only those books were chosen which properly belong in such a library. The most important col-

lections of authors, the best commentaries, reference books and similar aids are therefore to be found here; and the seminary is the centre for advanced study and research in the classical languages and literatures. Though primarily intended for graduates, the seminary is open to such undergraduates as are qualified to profit by its advantages. The room is lighted by electricity, and is open from 9 A. M. to 10 P. M.

## The Romance Department Library

A room in Sayles Hall has been set aside for the use of advanced students in the Romance department. A choice special library has been begun, and here all graduate courses are conducted. The professor or one of the instructors is constantly at hand to give informal assistance and advice to those admitted to these privileges. A large number of books have already been collected; and it is hoped that gifts from friends of the University, not only in the way of books but of engravings and works of art illustrating the literatures studied, will soon increase the value as well as the attractions of this important feature of the department's work.

## The Bancroft Library

Not long after the death of Professor Bancroft, Mrs. Bancroft, at the suggestion of Professor Sears, left in the room in University Hall formerly occupied by Professor Bancroft, and now used as a consultation room by the department of Rhetoric, several hundred volumes from the library of her husband, to form the nucleus for a departmental library. Last year Professor Sears added to these a very valuable collection of books, purchased with money contributed by a few alumni of the University. At present the inadequacy of the library discourages the frequent use of it; but books are added from time to time, and it is hoped that this collection will soon form a good working library and a worthy memorial of one who served the University long and faithfully.

## Other Special Libraries

Most of the other departments of the University have special collections of books for use in connection with advanced laboratory work. The most important of these belong to the departments of Chemistry, Physics, Botany, Comparative Anatomy, and Drawing.

## The Sears Reading Room

The Sears Reading Room Association, conducted by the students, occupies a large, commodious and well-lighted room, conveniently situated on the first floor of University Hall, fitted up especially for its use, and supplied with all the most important newspapers, daily and weekly, as well as with a variety of the more popular periodicals. The learned and scientific reviews, standard literary magazines and technical journals may be consulted in the University library.

## Other Library Facilities

Besides the University library, the five collections of books named below are practically at the service of students in Brown University, comprising, with the University library, a quarter of a million volumes, exclusive of pamphlets and manuscripts. The six combined collections afford library privileges such as can be found at but very few seats of learning in this country. The first three libraries named are entirely free, and the other two are readily available.

## The Providence Public Library

All students of Brown University are allowed, upon the same conditions as other residents of the city, to make use of the well selected Public Library of Providence, containing over 78,000 volumes, which enjoys a national reputation for excellence of management. It is situated at 73 Snow street, and is open every day in the year. The hours on ordinary

days are from 10 A. M. to 9 P. M.; and on Sundays and legal holidays, from 2 to 9 P. M. The librarian, a graduate of Brown University, prepares lists of references on various topics which are of service to students; the more extended of these lists are printed in the monthly bulletin of the library. He is glad to be consulted with respect to books on any of the departments of University teaching. On the history of Slavery and of the Civil War this library possesses one of the richest collections in America.

### The State Law Library

This collection of 18,000 volumes may be consulted in the Providence County Court House, at the corner of Benefit and College streets, only a few steps from the University, between the hours of 9 A. M. and 5 P. M. It is accessible to all students, and for certain lines of University study is invaluable.

### The Library of the Rhode Island Historical Society

The cabinet of the Rhode Island Historical Society, which has recently undergone extensive enlargement, is situated on Waterman street, next door to the University Library building. The library of the society comprises over 15,000 bound volumes and 40,000 valuable unbound volumes and pamphlets. Through the courtesy of the society the collection is made accessible, free of charge, to members of the University. It offers especial facilities for thorough research not only in all subjects relating to the history of Rhode Island, but also in many departments of general American history. The collection is open from 9 A. M. to 4 P. M.; on Saturdays, from 9 A. M. to 1 P. M.

### The Library of the Providence Athenaeum

The Athenaeum, chartered nearly sixty years ago, occupies a field peculiar to itself. It aims to furnish a home library, larger, better arranged, more useful and more attractive than that within the means of any individual shareholder, and its

growth is along the lines of general literature. The library numbers some 60,000 volumes, and the reading room receives upwards of 150 papers and magazines, including New York, Boston and Providence daily papers, and American, English, German, French and Italian weeklies, magazines and reviews. By a recent vote of its directors, professors or teachers, non-residents of the city, may become annual subscribers on the payment of four dollars in advance, and any student of Brown University whose family does not reside in the city, or who may obtain special privilege from the board, may become a subscriber for three months on the payment of one dollar in advance. Such subscribers have the right to take out books and use the rooms of the institution, in the same manner as shareholders and under like regulations. The Athenaeum is kept open, during the college year, from 9 A. M. to 10 P. M.

### The Library of the Rhode Island Medical Society

This is a collection of over twelve thousand books and pamphlets upon medicine, surgery and kindred branches. Many of them relate to physiology, physiological psychology, hygiene and other subjects pursued in the University. Arrangements are easily made whereby any student can, without cost, enjoy the privileges here offered. This library is in the Arnold Block, 54 North Main street. It is open from 2 to 6 P. M.

# LABORATORIES

## The Ladd Astronomical Observatory

The observatory is equipped with a Saegmuller-Brashear equatorial of twelve-inches aperture, which is supplied with a filar micrometer, spectroscope and other attachments; two transit instruments, one of which can be used as a zenith telescope; a chronograph; two astronomical clocks; several sextants and chronometers; recording meteorological apparatus; and various minor instruments. The equipment is available for illustrating the general courses in astronomy and for practical use in the applied courses open to undergraduates and graduates.

The observatory furnishes constant time-signals to the Rhode Island Electric Protective Company, by which they are distributed to its patrons. Routine observations for determining clock errors, and for pressure, temperature, humidity and precipitation are made throughout the year. Special observations are also made as opportunity offers.

## The Physical Laboratory

All the courses of instruction offered by the department of Physics are conducted in Wilson Hall. This building was specially designed and constructed for a physical laboratory. The general lecture-room is large and well ventilated, and contains all the necessary conveniences for the experimental demonstration of lectures. Seven laboratory rooms are provided for the experimental study of physics, each room being adapted to the investigation of a particular branch of the subject or available for the arrangement of classes according to proficiency. Brick piers are provided for the support of instruments requiring great steadiness, and the magnetic rooms are as free as possible from iron and other disturbing influences. Two rooms on the ground floor are devoted to a laboratory for electrical engineering, and are well equipped with machinery

and instruments. Equipment for certain special investigations recently undertaken has been courteously placed at the disposal of the department by friends of the University. Efforts are being made continually to develop the facilities for high-temperature and high-pressure work, in the directions specified in courses 22 and 23. The cabinets are well supplied with apparatus both experimental and demonstrative, and frequent additions are made as necessity requires. In all such cases selections are made with a view to use in the student's laboratory as well as in the lecture-room, and to the exclusion of merely exhibitional apparatus.

## Anatomical Laboratory

The laboratories and museum rooms of the department of Comparative Anatomy are located in Rhode Island Hall. The laboratory for introductory anatomy and histology is well lighted, and is provided with tables and instruments sufficient to accommodate a class of thirty students. The laboratories for advanced anatomy are a part of the museum, and are fully equipped with microscopes and the ordinary instruments and reagents for practical anatomical study. In all anatomical courses the valuable collections of the University and of the Rhode Island Medical Society are placed at the disposal of the student, and fresh material is supplied in abundance. The laboratory for physiology is located on the ground floor, and work-tables are provided for a class of twenty-five. This laboratory is fully equipped with reagents, glassware and the ordinary physiological apparatus. The laboratory for investigation and the smaller private laboratories are located near the department library. All are well lighted, and the general equipment for biological work is ample.

## The Chemical Laboratory

The department of Chemistry occupies the whole of the Chemical Laboratory building, which was erected expressly for the use of the department. Besides various subsidiary

rooms the building contains the chemical lecture-room and laboratories. Adjoining the lecture-room are rooms containing the apparatus in most frequent use for illustrating the lectures. The students' laboratory is supplied with work-tables and lockers furnishing accommodations for about two hundred and fifty students working by detachments. Adjacent to the students' laboratory are the balance room, the furnace room, the professor's office, and the assistants' laboratory.

## The Botanical Laboratory

The botanical laboratory occupies the entire basement of Maxcy Hall. The main lecture-room and laboratory is well equipped and will accommodate forty-eight students. A somewhat smaller room adjoining is designed for a histological laboratory. Ample instruments and materials are provided. The histological collections are of exceptional value. The herbarium, on the same floor, is convenient for consultation and systematic study of native and foreign plants.

## The Psychological Laboratory

The psychological laboratory occupies rooms in Wilson Hall. It possesses a considerable variety of apparatus for the study of sensations, the determination of discriminative sensibility, the measurement of the duration of mental processes, the detection of physiological accompaniments of changes in consciousness, and other fields of research. This equipment is especially well adapted for the illustration and demonstration of the main results of experimental work in psychology. Experimental psychology, however, is a science of recent origin, and its many yet unsolved or even unsuspected problems offer a rich field for further investigation. The department aims to make contributions to knowledge on this subject by original research; and the apparatus already possessed, that which can be supplied by the University work shops or by purchase, together with the simpler aids necessary for the study of the higher mental phenomena, offer good facilities for undertaking such work.

## Mechanical Engineering Laboratory

The laboratory, situated in the basement of Sayles Memorial Hall, is provided with excellent apparatus for making the most important tests on the strength of materials. The apparatus at present includes a 50,000-pound Riehlé testing machine, a machine for testing full-sized timber and steel beams, a Riehlé cement-testing machine and various pieces of auxiliary apparatus. Laboratory tests connected with the course in steam engineering use as a basis the various engines and boilers operated by the University.

## The Drawing Rooms

There are at present three large and well-lighted drawing rooms, accommodating two hundred students. These rooms are situated on the top floor of University Hall and are reached through the south entrance. About two hundred valuable models in wood and metal have been collected. A good many of these are mechanical in nature and are extensively used in the courses. The department possesses a dark room, exposure frame and washing tank, for preparing and developing blue prints. A library for the use of students interested in mechanical engineering has been established. Through the generosity of friends valuable works have been secured and funds are in hand for the purchase of others.

# MUSEUMS

## The Jenks Museum of Zoölogy

This museum is arranged according to modern methods of classification, beginning with the lower invertebrates and ending with the mammals. It includes materials not only for general work but for special investigation. There are on exhibition in the gallery, separate from the synoptic collections below, local collections representing the fauna of Rhode Island. Students giving special attention to zoölogy are allowed to take from the cases such specimens as they need, the aim always being to make the museum not merely an exhibition room but a place for work.

## The Museum of Anthropology

Properly to house and exhibit the rapidly growing stores of anthropological matter, a special hall contiguous to the Museum of Zoölogy has been fitted up, permitting a synoptic arrangement of the contents and otherwise greatly facilitating study. This work was done under the superintendence and entirely at the cost of the late Professor John Whipple Potter Jenks, A. M., who served so long and faithfully as the curator of the original museum. The Museum of Anthropology contains a great number of rare implements from foreign countries, as well as many once the property of the aboriginal races in our own land. Prehistoric anthropology is well illustrated by implements of stone, bone and bronze, with casts, models and photographs, either collected or purchased by Professor Packard in 1889. They represent France, Italy, England and Switzerland, materials from the lake dwellings of Switzerland being especially numerous.

## The Herbarium

The Herbarium consists mainly of the collections of various botanists, that have from time to time been given or bequeathed

to the University. Those of Colonel Olney, Mr. Bennett, Professor Bailey, Miss Stout and Mr. Brownell are the most prominent. The Olney collection is particularly rich in the genus *Carex*. The Stout collection consists mostly of ferns. In addition to these collections, many specimens have been obtained by exchange, purchase and smaller donations. The collections of Olney, Bailey and Stout are nearly all mounted; the remainder, more than one-half, are mainly unmounted. These collections are now nearly all merged in one general herbarium. They are roughly estimated to contain in all about 40,000 sheets, representing specimens from more than 60,000 localities. As the price of good botanical specimens, unmounted, ranges from seven to ten cents each, the commercial value of these may be approximately estimated, although intrinsically they are invaluable. The arrangement of orders and genera of the flowering plants is according to Bentham and Hooker's *Genera Plantarum;* that of the ferns, according to Hooker's *Synopsis Filicum.*

The Herbarium furnishes the means by which allied species and genera, maturing at different seasons and in widely separated countries, are critically studied, side by side, and their affinities or differences duly observed, recorded, and published to the world. It is also the invaluable reference for the satisfactory determination of closely allied and varying species of many difficult genera which are, at times, almost impossible to separate by the best of printed descriptions.

Under proper restriction all the botanical exhibits are made accessible to students and to the public.

## The Museum of Classical Archaeology

By the generosity of its friends the University has been enabled to institute a Museum of Classical Archaeology. A collection of plaster casts from works of classical art has been placed in Manning Hall, which has been appropriately arranged and decorated for this purpose. They are of rare excellence, and of great value for illustrating ancient history,

biography and art. The number of casts in the museum has been considerably increased by recent donations. The last addition to the collection consists of casts from the Elgin marbles in the British Museum. Further additions will be made soon.

## Portraits

The University possesses a large number of valuable portraits. Most of them are hung in Sayles Hall, which is thus made one of the chief centres of attraction on the University grounds. The collection receives accessions every year. It now includes portraits of the University's principal benefactors, of some among its former officers, and of many other distinguished persons, Americans and foreigners; the history of Rhode Island is especially well represented. The hall is fireproof. The utmost pains is taken and much expense incurred to keep these treasures in perfect order; yet they are made as completely accessible both to the University and to the larger public as is consistent with their proper preservation.

## PHYSICAL CULTURE

The authorities of Brown University consider the attainment of robust physical health as among the most important aims of residence at college, necessary alike to high scholarship in college and to the successful performance of duties which arise in later life. In this view a rational and well-regulated system of physical training has been devised and is in successful operation. A due measure of such training is required of every undergraduate connected with the University, unless he is physically unable to engage in it.

The director of the gymnasium gives each student, upon entering college, a thorough physical examination, at which measurements and strength-tests are taken. From this examination a chart is made out for every student, showing his size, strength and development, and how he compares with the normal standard. Along with these data is given a card indicating how the student's weakness, if any exist, may be remedied, and affording advice in reference to bathing and the general care of the body.

From November until April each pupil is required to exercise four hours a week in the Lyman Gymnasium. This is a building of beautiful architectural design, equipped with all the apparatus usually found in modern structures of the kind. Most of this exercise occurs in classes. For class drill, the Freshmen swing Indian clubs; the Sophomores employ dumb bells; the Juniors engage in single-stick exercise; the Seniors use fencing foils, advancing, retreating, thrusting and parrying at the word of command. As a supplement to these drills each class is separated into four divisions, which perform exercises upon chest-weights, horizontal and parallel bars and other apparatus. The movements executed are graded to correspond with the strength and advancement of the several divisions. During the Sophomore and Junior years boxing and wrestling are carried on also in classes. These forms of exercise carefully conducted prove to be in the highest degree

popular and beneficial. The remainder of the required four hours per week each student devotes to the fulfilment of the directions given him on the card made out from the measurements taken at the beginning of the year. Each student is regularly marked and credited in his gymnasium work, faithfulness and punctuality being the tests.

In addition to the exercise in the gymnasium, every effort is made to encourage interest in out-door sports and participation in them at proper seasons of the year. Regular exercise in the open air is urged upon students as of very great importance. Lincoln Field, the University play ground, adjoins the gymnasium and is within a few hundred yards of most of the dormitories of the University.

The general control of all athletic organizations is in the hands of a committee of the Faculty.

## Hospital Beds

Besides attempting the maintenance of the health of its students and the cultivation of a sound physique, the University makes provision for them when ill. It possesses two free beds in the Rhode Island Hospital, to the occupancy of which the President of the University has the right of appointment. The first of these, The Charles Smith Bradley Free Bed, was established in 1872 by a payment to the hospital of four thousand dollars by the late Judge Bradley, a member of the Board of Fellows, thereby endowing a free bed "under the control of the President of Brown University for the time being, for the benefit of any officer or student of that institution who may have occasion for it." The second, The George Ide Chace Free Bed, was established by a payment to the hospital of a like sum by the late Professor George Ide Chace; this foundation gives to the President of the University "the right to nominate and send to said hospital a patient, being a proper subject for treatment in said hospital according to the rules of the institution, to occupy a bed in said hospital, and to receive the usual care, and medical, surgical and other attendance, and medicines and board, free of charge."

## BROWN UNIVERSITY LECTURE ASSOCIATION

An organization of graduates and friends of the University, called the Brown University Lecture Association, sustains each winter several courses of free public lectures upon topics in various departments. During the winter of 1895–96 the following courses were given:

Rev. F. Huberty James gave three lectures on "The Religions of China"; Mr. Louis C. Elson, of the New England Conservatory of Music, gave four lectures on "The History of Song"; Professor C. Lloyd Morgan, principal of University College, Bristol, England, lectured on "Birds: the Habit and Instinct of Flight"; Colonel Carroll D. Wright, United States Commissioner of Labor, gave four lectures entitled "Studies in Social Economics"; Professor Courtney Langdon, of Brown University, lectured three times upon "The Divina Commedia, its Predecessors and Successors"; Professor Charles S. Hastings, of Yale University, gave three lectures on "The Physical Theory of Music."

For the season of 1896–97 plans have been made for the following courses:

Four lectures by Dr. Daniel G. Brinton, of Philadelphia, on "The Religions of Primitive People"; three lectures by Professor A. D. F. Hamlin, of Columbia University, on "Palaces, Ancient and Modern"; two lectures by Professor Louis C. Elson, of the New England Conservatory of Music, on "How to Listen to an Orchestra"; four lectures by Professor C. T. Winchester, of Wesleyan University, on "Four English Poets"; one lecture by Professor Hermon C. Bumpus, of Brown University, on "Certain Practical Applications of the X Rays."

All these lectures are free to the public, who are most cordially invited to attend. Persons desiring further information or wishing to become sustaining members of the association are requested to communicate with the secretary, Professor J. Franklin Jameson, 196 Bowen street.

## Other Lectures

In addition to the lectures under the auspices of the Lecture Association, many of those given before the various clubs of the University are open to the public. During the year 1895-96 the most important addresses before the Philosophical Club were that by Professor Josiah Royce, of Harvard University, on "Social Consciousness and Individual Consciousness; their Limits and their Metaphysical Significance," and the annual address, by Professor William James, of Harvard University, on "The Will to Believe." Before the Biblical Research Club were delivered: "The Student's Attitude towards the Bible," by the Rev. Floyd W. Tompkins, of Providence; "Present Tendencies in Biblical Criticism," by Professor Charles F. Kent, of Brown University; "Methods of Biblical Interpretation," by the Rev. T. D. Anderson, of Providence; and "Theories of Revelation," by Professor F. K. Sanders, of Yale University. Before the students in the department of Comparative Anatomy were delivered: "The Diseases of the Skin," by Gardner T. Swarts, M. D.; "The Diseases of the Breast," by George L. Collins, M. D.; and "The Diseases of the Bones," by John W. Keefe, M. D.

## RELIGIOUS CULTURE

This is deemed to be of the utmost importance. The public duties of every day begin with religious exercises in the beautiful Sayles Hall, at which all undergraduate students are required to be present. These exercises are usually conducted by clergymen of different denominations. Among those officiating this year are Rev. M. H. Bixby, D. D., Rev. H. J. Cushman, Rev. J. M. Taber, Rev. E. C. Moore, Ph. D. All students are desired to attend divine worship on Sunday. The Young Men's Christian Association has meetings on Wednesday evenings during term time, to which all students are welcome. The Bishop Seabury Association holds a service every Friday afternoon. In addition each class has its own meeting for prayer and conference on Friday afternoons.

The numerous courses of study in the department of Biblical Literature and History, while thoroughly scientific, are taught from religious and philanthropic as truly as from scientific motives, with the wish to render the oracles of the Christian religion more than thay are or have ever been a source of intelligent delight and of high inspiration to educated men.

# EXAMINATIONS, STANDING, HONORS

## Term Examinations

Except in laboratory, seminary and similar work, all classes are examined at the close of each term. A student cannot be admitted to the term examination in any study unless all his college bills are settled and his work in the study is satisfactory to the officer in charge. If excluded from the examination, or if absent without the consent of the Faculty, he is considered delinquent in the study. Also, if a student is examined in a given study and fails to receive the "pass" mark, he is considered delinquent in that study, and must prepare himself for a subsequent examination.

Any candidate for a degree who, either from failure at examination or because absent or excluded therefrom, is delinquent in three or more studies at the close of a term, forfeits membership in his class. Special students in such case cannot be registered for a succeeding term.

A student delinquent in any study of the first or the second term must, at the time appointed by the Registrar, and before the middle of the term next succeeding that for which he is deficient, be specially examined. Students delinquent at the close of an academic year must be examined on the Monday or Tuesday immediately preceding the beginning of the next academic year (for 1897, on September 13 and 14). The schedule for these delinquent examinations will be posted in the Registrar's office on Monday morning, September 13. Candidates for degrees who are delinquent in the studies of a given year, unless for worthy cause they are respited by the Faculty, cannot begin the studies of the next year until they have passed successfully the examinations required.

When a student has been absent from a regularly appointed delinquent examination covering a given course, no instructor is authorized to examine him on such course without a written permit from the Registrar, for which a fee of two dollars is charged.

A student delinquent in any study, who fails to obtain the pass mark on special examination, must, before he is recommended for a degree, study the subject again, either with a succeeding class or under an instructor appointed by the Faculty.

A student whose term work is gravely unsatisfactory, likewise one who, being admitted to the examination, betrays extreme ignorance of the subject, is charged with a "double failure." Such a student is not admitted to the delinquent examination, but must pursue the subject again, either with a succeeding class or under an instructor appointed by the Faculty.

## Registration and Attendance

All undergraduate students who desire to attend the University during a given term are required to register at the Registrar's office on or before the first day of such term. All graduate students, also, intending to pursue courses at the University, must register before beginning their work. Every undergraduate student registered or re-registered after the first day of any term is charged for such registration or re-registration a fee of five dollars, to be remitted only by the President, and only on presentation of a substantial excuse for the lateness or the change. Any modification of a registration once made is accounted a re-registration.

Each student is expected to attend the daily chapel service and also every exercise in the several studies to which he is assigned. The term reports sent to the parent or guardian of each student contain the record of all absences from required exercises.

## Reports of Proficiency

A careful record is kept of the proficiency of every student of the University in his several studies. Of each undergraduate student the standing is determined at the close of each term. A report is sent to the parent or guardian of every

student, indicating his standing in each of his studies for the term, and announcing his deficiency in any study or studies if such deficiency exists.

## Appointments for Commencement

Every member of the Senior class is allowed to present for Commencement an oration or a thesis. From the number of the papers presented the Professor of Rhetoric, on or before the second Wednesday in April, selects at least one-half of both the orations and the theses, and submits them to a committee consisting of the President of the University, the Professor of Rhetoric, and a third member elected each year by the Faculty. This committee select from the orations laid before them such, not exceeding ten in number, as in their judgment have sufficient merit to represent the University with credit at Commencement, regard being had also to the oratorical ability of the several writers as determined by their attainments in elocution. The committee select from the theses such as they deem deserving of particular mention, with reference to the special proficiency shown by the writers in the department of study which they treat, and to excellence in composition. The number of theses accepted cannot exceed that of the accepted orations. The names of the writers of the theses accepted are printed in the Commencement programme.

## GRADUATE DEGREES

The degree of MASTER OF ARTS is granted under the following conditions: The candidate, already a Bachelor of Arts, of Philosophy, of Science, or of Letters, must have completed a thorough course, approved by the Faculty and the Board of Fellows, of liberal graduate study, sufficient in amount to constitute a fifth year of college work, and must have passed satisfactory examinations thereupon. By continuous residence at the University, candidates fulfilling the above conditions may receive the degree in one year from graduation; but in cases of partial or entire non-residence the degree will not be conferred until after two years of graduate study. Candidates for this degree registered as *in absentia* who yet desire some instruction at the University may receive such. They are required to register at the Registrar's office specially for the course or courses desired, fees being charged accordingly. See below, under "Expenses."

The degree of DOCTOR OF PHILOSOPHY is conferred under the following conditions: The candidate must be a Bachelor of Arts, of Philosophy, of Science, or of Letters. He must have resided at the University at least two years after graduation, pursuing a systematic course of study approved by the Faculty and the Board of Fellows, and sustaining satisfactory examinations on the same, concluding his course with a thesis giving evidence of high scholarship and of special excellence in the studies pursued. To receive this degree, one must further possess a good knowledge of Latin, French and German, unless for special reasons excused in respect to one or more of these languages.

Any person wishing to become a candidate for either of the above degrees should communicate with the chairman of the Committee on Graduate Studies, naming the departments in which he desires to study. For the degree of Doctor of Philosophy two courses at least are required, a Major and a Minor. The communication is laid before the heads of the departments concerned who, in conference with the applicant, arrange the work in detail.

A student desiring to receive at any given Commencement the degree of Master of Arts after one year's residence, must announce his wish to the chairman of the committee, in writing, on or before the 15th of October of the year preceding that Commencement, and must name in his application the department or departments of study in which he desires to be examined.

Every student, also, who desires to receive at any given Commencement the degree of Master of Arts after two or more years of non-resident study, must make similar announcement on or before the 15th of October of the second year preceding that Commencement.

A student desiring to receive at any Commencement the degree of Doctor of Philosophy must make similar announcement on or before the 15th of October of the second year preceding that Commencement.

A year of work for the degree of Master of Arts, unless performed in residence, cannot be counted as a year of work for the higher degree; and it is not necessarily so counted even when performed in residence.

The examinations of a candidate desiring to receive the degree of Master of Arts are held only when notification of the intention to appear for examination is given on or before April first of the year in which he presents himself for examination. The thesis of a candidate for the degree of Doctor of Philosophy must be presented to the Faculty, in type-written copy or print, before the first of April in that year. The approval of such thesis by the Faculty is essential to the attainment of the degree. Candidates for the degree of Master of Arts who have studied in residence must have their final examinations certified by their officers of instruction to the Committee on Graduate Students, before the second Wednesday in June. All other candidates for the degree of Master of Arts, and all candidates for the degree of Doctor of Philosophy, are examined publicly before the first of June by a committee of the Faculty.

For the University dues connected with graduate study, see below, under "Expenses."

## ACADEMIC HOODS

Academic Hoods as below described have been adopted for use by graduates of this University.

The pattern is that commonly used in English and American universities; doctors' hoods being double, all others single. The material used is worsted stuff or silk. The hood for a Doctor of Divinity is brown, lined with white; that for a Doctor of Laws is entirely of brown, within and without. Except in these two cases the exterior of all hoods is black. All interiors are brown with the single exception of the hood for a Doctor of Divinity, which, as just noted, is white. Except in the case of Doctor of Divinity or Doctor of Laws, the degree is indicated by the trimmings, as follows: Bachelors' hoods, including those of Mechanical and Civil Engineers, are without bindings or edgings; Masters' hoods have white edgings, two inches wide; hoods for Doctors of Philosophy and Doctors of Science have bindings of gold cord.

Any member of the Faculty who holds a degree from some other learned institution may wear the hood proper to the corresponding degree in this University.

# EXPENSES

Term bills are due, and must be paid or their payment secured, on presentation, at the beginning of each term.

## Regular University Dues

### Undergraduate Candidates for a Degree

The dues of each undergraduate candidate for a degree are as follows:

Tuition, $35 per term; $105 per year.

General incidentals, $15 per term; $45 per year.

Every undergraduate candidate for a degree pays, upon admission to the University, a matriculation fee of $5.

Every member of the Senior class pays upon graduation a fee of $8 for his diploma and other extra expenses connected with graduation.

Laboratory dues, see page 191.

For expenses of college rooms, see page 193.

The incidental expenses are for the printing of programmes, examination papers, and the like, the use of the library and gymnasium, heat for these and for the halls and recitation rooms, and the wages of servants to care for the same. The charge is fixed as nearly as possible at the actual amount of these expenses on an average of several years.

### Special Students

Special students in the University pay, as a rule, full tuition and incidentals, but the charge is proportionately less when students are admitted to courses of less than fifteen hours of class attendance a week.

### Graduate Students

The fees for graduate students in residence are:

Tuition, $50 per term.

Examination for Master of Arts, $15.

Examination for Doctor of Philosophy, $25.

Laboratory dues, see page 191.

A candidate for the degree of DOCTOR OF PHILOSOPHY who has paid tuition for two years may, without additional charge, continue his studies for two years more if necessary to the attainment of his degree. A candidate in residence for the degree of MASTER OF ARTS who has paid tuition for one year may, if necessary to the attainment of his degree, continue his studies for one year more without additional charge.

A candidate in residence for the degree of MASTER OF ARTS who, without remitting his studies, becomes a candidate for the degree of DOCTOR OF PHILOSOPHY is credited with whatever tuition he has already paid, in case his previous work is allowed to count toward the higher degree.

The fees for a candidate for the degree of MASTER OF ARTS *in absentia* are :

Registration fee, $25.

Tuition, $10 per term.

Examination fee, $15.

Laboratory dues, see below.

A candidate *in absentia* is entitled, upon payment of the above fees, to pursue a three-hour course at the University. For each additional one hour course $5 is charged ; for each additional two hour or three hour course, $10.

A candidate *in absentia* who has paid tuition for two years may, if necessary to the attainment of his degree, continue his studies for two years more without additional charge.

Graduate students, not candidates for a degree, pay for each course of one hour per week, $5 ; for each course of two or three hours per week, $10.

## SPECIAL LABORATORY DUES

Except in chemistry, graduate students are charged $5 per term for a three-hour laboratory course. No graduate student, however, whose tuition fees are paid is charged, aside from breakage, more than $35 per term for all laboratory work.

### Chemistry

Candidates for a degree who take courses 1, 2 or 3 are charged for course 1, $1; for course 2, $2; for course 3, $3.

Candidates for a degree who take advanced courses in analytical chemistry are charged $10 per term for a three-hour course and $20 for a six-hour course.

Graduate students pay the same fees as undergraduate candidates for degrees.

Special students who take no study except courses 1, 2, 3 in chemistry pay for these $10 per term.

Special students who take no study except advanced courses in analytical chemistry are charged $4 per term for each hour per week of prescribed attendance.

Special students must pay for a full term. No deduction is made on account of absence or withdrawal.

All students in the laboratory are charged for their individual breakage of apparatus. This charge ranges from $1 to $3.

### Physics and Engineering

Candidates for a degree who take courses in the physical laboratory pay $5 a term for a three-hour course.

Candidates for a degree who take shopwork pay $10 per term.

Special students who take only shopwork pay $4 per term for each hour per week of prescribed attendance.

### Botany

Students who take courses 1, 2, 3 pay $1 per term.

### Comparative Anatomy

The charge for a laboratory course varies from $2 to $5.

## Undergraduate Examinations for Women

For each full set of examinations, viz., entrance examinations or examinations on any full term of undergraduate work, each candidate pays $10. For examinations upon work requiring less than fifteen hours of class-room attendance a week, the charge is at the rate of 75 cents for a one-hour course.

## General Expenses

The total expenses of students vary, of course, according to their habits, tastes and means, some students expending two or three times as much as others.

Subjoined are figures denoting the yearly expenses, including University dues, of several recent students, selected at random. In the case of one of these, $250 paid for everything but board; in that of another, $185 did the same. Two kept their total expenditure, including board and all else save clothing, down to $265 apiece. Two others needed $425 each, one year; $435 and $450, the next. Another required $412.87, another $475. Still another spent $510 in his Freshman year, $466 in his Sophomore year, both sums, however, including unusual amounts for traveling. So far as ascertained, the largest expenditure in recent years is reported by a member of the class of 1890, whose Freshman year cost him $890, his Sophomore year $730, his Junior year $725.

The usual cost of board is from $3 to $5 per week. Most of the students do not pay over $3.50, and good board can be obtained for $3. Board with furnished rooms, in private families, may be had at from $5 to $10 per week. Board is not furnished at the University; but a list, kept by the Steward, of eligible families in the city where board can be obtained, is always accessible to students.

The Brown University Coöperative Refectory, organized and controlled by the students of the University, furnishes its shareholders with excellent board exactly at cost, viz., at present, at $3.60 per week. The shares number 120 and their par value is $10 each. The Refectory is able to accommodate a few students who own no stock, such paying for board $4 per week. A number of shares in the Refectory are for sale at the end of each collegiate year, usually at prices not much above their par value.

Students needing to increase their incomes through their own exertions find in the city numerous opportunities for doing so, by giving private instruction, teaching in evening schools,

and other occupations not necessarily inconsistent with their college duties.

## Dormitory Accommodations

Hope College, University Hall, Slater Hall and the new Maxcy Hall contain together one hundred and twenty single rooms and twenty suites. In addition there are, on or near the University grounds, the Messer House, the Howell House, the Pease House, and the Brown Street House. These houses are controlled by the University, and are used either wholly or mainly for dormitory purposes. They contain forty-eight single rooms and three suites. The University thus presents for students' residences one hundred and sixty-eight single rooms and twenty-three suites. All these rooms and suites are heated and cared for by competent servants.

Heat and service are charged for in addition to the rents listed in the tables on the following pages. The lowest charge for heat (single room) is $15 per annum; the highest (suite) is $30 per annum. The charge for service is from $15 to $21 per annum for each single room, and from $24 to $30 for each suite, according to the size and number of its rooms.

The rooms in Hope College, University Hall and Slater Hall, and those in the Howell, the Messer and the Brown Street House, are rented entirely unfurnished. Those in Maxcy Hall contain ample and elegant furniture, occupants having to provide nothing except bed-linen and towels. The rooms in the Pease House are supplied with bed-linen as well as with all necessary furniture.

In Hope College and in University, Slater and Maxcy Halls, each room has its gas meter, and its occupants are charged for the actual amount of gas used. This is of course in addition to rent, heat and service. In the Howell, Messer, Pease and Brown Street houses, on the contrary, the figures for rent in the following tables include the cost of gas, so that no separate charge for this is made.

When two students occupy a room or a suite together, each of the charges named above is divided between them. When, without necessity for so doing, three tenants regularly occupy a room or a suite intended for two, fifty per cent. is added to the rent and other charges.

It will be observed, further, that the cost above given for each item is the *annual* cost.

## Room Contracts and Bonds

All rooms not rented on May 30 of any year are offered for rent on that day and rented to the first applicant. Each student renting a room must sign a contract therefor in the form given below, on which surety may be demanded, binding him to pay or see paid the rent of the room through the entire year. This obligation is not impaired by the student's removal from the University, whatever the cause of such removal.

The following is a contract between Brown University, party of the first part, and the undersigned, jointly and severally, parties of the second part. We hereby engage, and each of us hereby engages, room No. in ; and we bind ourselves, and each of us binds himself in case of the other's failure, to pay or cause to be paid to the Registrar of Brown University the entire rent, including heat and service, amounting to $ for the college year beginning September, 189 . It is a part of this agreement that each occupant of a room will be held responsible for all damage or defacement of such room or its furniture, ordinary wear excepted.

Signed by and this day of 189 ; We (I) bind ourselves (myself) to the performance of the foregoing agreement, and guarantee the payment of any sums coming due thereunder.

Every student renting a college room for a year must either pay the whole year's bill for rent, heat and service, at or before his registration for the first term of the year; or else deposit with the Registrar at or before such first registration a satisfactory bond in the sum of $250.

The following conspectus shows the rent and location of each dormitory room controlled by the University:

HOPE COLLEGE.

| | Division | Floor | Windows Face | Bedrooms | Rent |
|---|---|---|---|---|---|
| 1 | South | 1 | E. & S. | There are no separate bedrooms, but Nos. 1 and 2, 5 and 6, 9 and 10, 35 and 36, 39 and 40, 43 and 44, can be used either as suites or as single rooms. | $81 |
| 2 | " | " | W. & S. | | 87 |
| 3 | " | " | W. | | 81 |
| 4 | " | " | E. | | 78 |
| 5 | " | 2 | E. & S. | | 81 |
| 6 | " | " | W. & S. | | 87 |
| 7 | " | " | W. | | 81 |
| 8 | " | " | E. | | 78 |
| 9 | " | 3 | E. & S. | | 72 |
| 10 | " | " | W. & S. | | 78 |
| 11 | " | " | W. | | 72 |
| 12 | " | " | E. | | 66 |
| 13 | " | 4 | E. & S. | | 66 |
| 14 | " | " | W. & S. | | 72 |
| 15 | " | " | W. | | 66 |
| 16 | " | " | E. | | 63 |
| 17 | Middle | 1 | E. | | 78 |
| 18 | " | " | W. | | 81 |
| 19 | " | " | W. | | 81 |
| 20 | " | " | E. | | 78 |
| 21 | " | 2 | E. | | 78 |
| 22 | " | " | W. | | 81 |
| 23 | " | " | W. | | 81 |
| 24 | " | " | E. | | 78 |
| 25 | " | 3 | E. | | 66 |
| 26 | " | " | W. | | 72 |
| 27 | " | " | W. | | 72 |
| 28 | " | " | E. | | 66 |
| 29 | " | 4 | E. | | 63 |
| 30 | " | " | W. | | 66 |
| 31 | " | " | W. | | 66 |
| 32 | " | " | E. | | 63 |
| 33 | North | 1 | E. | | 78 |
| 34 | " | " | W. | | 81 |
| 35 | " | " | W. | | 93 |
| 36 | " | " | E. | | 93 |
| 37 | " | 2 | E. | | 78 |
| 38 | " | " | W. | | 81 |
| 39 | " | " | E. & N. | | 93 |
| 40 | " | " | E. & N. | | 93 |
| 41 | " | 3 | W. | | 66 |
| 42 | " | " | W. | | 72 |
| 43 | " | " | W. & N. | | 81 |
| 44 | " | " | E. & N. | | 81 |
| 45 | " | 4 | E. | | 63 |
| 46 | " | " | W. | | 66 |
| 47 | " | " | W. & N. | | 72 |
| 48 | " | " | E. & N. | | 72 |

UNIVERSITY HALL.

| No. | Division | Floor | Windows Face | Bedrooms | Rent |
|---|---|---|---|---|---|
| 10 | South | 2 | S. & W. | 2 | $ 190 |
| 12 | " | " | W. | None | 75 |
| 13 | " | " | W. | " | 75 |
| 16 | " | " | E. | " | 60 |
| 17 | " | " | E. | " | 66 |
| 18 | " | " | E. & S. | " | 93 |
| 19 | " | 3 | S. & W. | 2 single | 180 |
| 21 | " | " | W. | None | 72 |
| 22 | " | " | W. | " | 72 |
| 25 | " | " | E. | " | 60 |
| 26 | " | " | E. | " | 60 |
| 27 | " | " | E. & S. | " | 81 |
| 28 | " | " | S. & W. | 2 | 160 |
| 30 | " | " | W. | None | 60 |
| 31 | " | " | W. | " | 60 |
| 32 | " | " | E. | " | 57 |
| 33 | " | " | E. | " | 57 |
| 34 | " | " | E. & S. | " | 81 |
| 36 | North | 1 | W. | " | 75 |
| 40 | " | 2 | W. | " | 75 |
| 41 | " | " | W. | " | 75 |
| 43 | " | " | W. & N. | 2 | 190 |
| 44 | " | " | E. & N. | None | 81 |
| 45 | " | " | E. | " | 66 |
| 46 | " | " | E. | " | 60 |
| 47 | " | 3 | W. | " | 66 |
| 48 | " | " | W. | " | 66 |
| 50 | " | " | W. & N. | 2 | 180 |
| 51 | " | " | E. & N. | None | 75 |
| 52 | " | " | E. | " | 60 |
| 53 | " | " | E. | " | 60 |
| 54 | " | 4 | W. | " | 60 |
| 55 | " | " | W. | " | 60 |
| 57 | " | " | W. & N. | 2 | 156 |
| 58 | " | " | E. & N. | None | 75 |
| 59 | " | " | E. | " | 57 |
| 60 | " | " | E. | " | 57 |

BROWN STREET HOUSE.

| | | | | | |
|---|---|---|---|---|---|
| 4 | ..... | 2 | S. W. | One | 175 |
| 5 | ..... | " | E. S. | None | 75 |
| 6 | ..... | " | W. N. | " | 65 |
| 10 | ..... | 3 | E. S. | " | 55 |
| 11 | ..... | " | S. W. | " | 65 |
| 12 | ..... | " | W. N. | " | 55 |
| 13 | ..... | " | W. N. | " | 55 |

MAXCY HALL.

| No. | | Floor | Windows Face | Rent |
|---|---|---|---|---|
| 201 | | 2 | E. | $105 |
| 202 | | " | " | 105 |
| 203 | | " | E. & S. | 105 |
| 204 | | " | W. & S. | 100 |
| 205 | | " | W. | 100 |
| 206 | | " | " | 100 |
| 207 | | " | " | 100 |
| 208 | | " | " | 100 |
| 209 | | " | W. & N. | 100 |
| 210 | | " | E. & N. | 105 |
| 211 | | " | E. | 105 |
| 212 | | " | " | 105 |
| 313 | | 3 | " | 105 |
| 314 | | " | " | 105 |
| 315 | | " | E. & S. | 105 |
| 316 | | " | W. & S. | 100 |
| 317 | | " | W. | 100 |
| 318 | | " | " | 100 |
| 319 | | " | " | 100 |
| 320 | | " | " | 100 |
| 321 | | " | W. & N. | 100 |
| 322 | | " | E. & N. | 105 |
| 323 | | " | E. | 105 |
| 324 | | " | " | 105 |
| 425 | | 4 | " | 105 |
| 426 | | " | " | 105 |
| 427 | | " | E. & S. | 105 |
| 428 | | " | W. & S. | 100 |
| 429 | | " | W. | 100 |
| 430 | | " | " | 100 |
| 431 | | " | " | 100 |
| 432 | | " | " | 100 |
| 433 | | " | W. & N. | 100 |
| 434 | | " | E. & N. | 105 |
| 435 | | " | E. | 105 |
| 436 | | " | " | 105 |

SLATER HALL.

| No. | Division | Floor | Windows Face | Bedrooms | Rent |
|---|---|---|---|---|---|
| 1 | South | 1 | E. S. & W. | 2 | $200 |
| 2 | " | " | E. & W. | 1 | 150 |
| 3 | " | 2 | E. S. & W. | 2 | 200 |
| 4 | " | " | E. & W. | 2 | 185 |
| 5 | " | 3 | E. S. & W. | 2 | 190 |
| 6 | " | " | E. & W. | 2 | 185 |
| 7 | " | 4 | E. S. & W. | 1 | 125 |
| 8 | " | " | W. | None | 87 |
| 9 | " | " | W. | " | 57 |
| 10 | North | 1 | E. W. | 2 | 185 |
| 11 | " | " | E.W. & N. | 2 | 185 |
| 12 | " | 2 | E. W. | 2 | 185 |
| 13 | " | " | W. | None | 51 |
| 14 | " | " | W. N. E. | 2 | 200 |
| 15 | " | 3 | W. E. | 2 | 181 |
| 16 | " | " | W. | None | 47 |
| 17 | " | " | W. N. E. | 2 | 190 |
| 18 | " | 4 | E. | None | 53 |
| 19 | " | " | W. | " | 82 |
| 20 | " | " | W. N. E. | 1 | 111 |

MESSER HOUSE.

| | | | | |
|---|---|---|---|---|
| 1 | 1 | E. S. | None | 60 |
| 2 | " | S. W. | " | 60 |
| 3 | " | W. | " | 50 |
| 4 | " | E. | " | 60 |
| 5 | " | W. | " | 25 |
| 6 | TRUNK ROOM. | | | |
| 7 | 2 | E. S. | None | 65 |
| 8 | " | S. W. | " | 65 |
| 9 | " | E. | " | 45 |
| 10 | " | W. | " | 65 |
| 11 | " | E. | " | 45 |
| 12 | " | W. N. | " | 50 |
| 13 | 3 | W. | " | 15 |
| 14 | " | W. | " | 15 |
| 15 | " | E. | " | 25 |
| 16 | " | N. | " | 20 |

HOWELL HOUSE.

| | | | | |
|---|---|---|---|---|
| 1 | 1 | S. & E. | None | 100 |
| 2 | " | S. | " | 70 |
| 3 | " | E. & W. | " | 30 |
| 4 | " | N. | " | 56 |
| 5 | " | S. & E. | 1 | 80 |
| 6 | " | S. | None | 70 |
| 7 | " | N. | 1 | 75 |
| 8 | " | E. & S. | None | 45 |
| 9 | " | S. & E. | " | 15 |

PEASE HOUSE.

| No. | Division | Floor | Windows Face | Remarks | Rent |
|---|---|---|---|---|---|
| 1 | No. 27 | 1 | N. & W. | The rooms in this building are furnished, and the prices given include gas and washing of linen. | $125 |
| 2 | West | " | W. | | 100 |
| 3 | " | " | W. | | 50 |
| 4 | " | 2 | N. & W. | | 125 |
| 5 | " | " | S. & W. | | 125 |
| 6 | " | " | W. | | 25 |
| 7 | " | " | S. & W. | | 75 |
| 8 | " | 3 | N. & W. | | 100 |
| 9 | " | " | S. & W. | | 105 |
| 10 | " | " | W. | | 50 |
| 11 | " | " | S. &. W. | | 75 |
| 12 | No. 29 | 1 | N. & E. | | 125 |
| 13 | East | " | S. & E. | | 100 |
| 14 | " | " | E. | | 50 |
| 15 | " | 2 | N. & E. | | 125 |
| 16 | " | " | S. & E. | | 125 |
| 17 | " | " | E. | | |
| 18 | " | " | S. &. E. | | 75 |
| 19 | " | 3 | E. | | 75 |
| 20 | " | " | N. & E. | | 110 |
| 21 | " | " | S. &. E. | | 105 |
| 22 | " | " | E. | | 40 |
| 23 | " | " | S. | | 40 |

DIRECTORY TO THE DORMITORIES

Slater Hall, South Division, Rooms 1 to 9.

Slater Hall, North Division, Rooms 10 to 20.

University Hall, South Division, Rooms 1 to 34.

University Hall, North Division, Rooms 35 to 61.

Hope College, South Division, Rooms 1 to 16.

Hope College, Middle Division, Rooms 17 to 32.

Hope College, North Division, Rooms 33 to 48.

Maxcy Hall, Rooms 201 to 436.

Messer House, Rooms 1 to 16.

Brown Street House Rooms 4 to 13.

Pease House, Rooms 1 to 23.

Howell House, Rooms 1 to 9.

The Howell, Pease, Brown Street and Messer Houses were private residences. In them the rent for each room includes gas for the same.

# FELLOWSHIPS AND SCHOLARSHIPS

## The Fellowship of the Grand Army of the Republic

In 1891 the Grand Army of the Republic, Department of Rhode Island, donated to Brown University the sum of ten thousand dollars, to be forever known as the Grand Army of the Republic Fellowship Fund. Only the income of the fund can be used. This income goes to aid alumni of Brown University, of acknowledged excellence in scholarship and character, to pursue advanced liberal study; the intention is that the income for any year shall all go to the same person, except in case of his death, or his resignation or forfeiture of the fellowship, when a successor may be appointed for the remainder of the year. Holders of the fellowship are appointed by the President of the University, subject to the approval of the Board of Fellows; but the descendants of Union veterans of the Civil War of 1861-65 are always to be preferred when the other qualifications of candidates are equal. No considerations touching the political or religious preferences of candidates can ever enter into the appointments. Appointments to the fellowship are regularly made for one year, but incumbents of special diligence or ability may be re-appointed. The President is authorized to make for the reception and use of the income from this fund such other conditions, not inconsistent with the above, as he may from time to time deem wise and proper.

Applications for the fellowship must be in the hands of the President on or before May 15th.

The Grand Army of the Republic Fellow for 1896-97 is

Fred Earle Whitaker.

## The Philadelphia Alumni Fellowship

This is another fund, to be ten thousand dollars, which the Philadelphia Alumni Association of Brown University will soon render available. Its general purpose is to assist graduate students of special ability in pursuing advanced studies at the University.

## Scholarships

The University has about one hundred scholarships. The income of these is given, under the direction of a committee appointed by the Corporation, to meritorious students who may need pecuniary assistance; but a scholarship is forfeited if the holder incurs college censure or fails to secure a creditable standing in his studies.

The following scholarships, seventy-three in number, are of one thousand dollars each; with the exceptions indicated, they bear the name of their founders:

The Eleven Nicholas Brown Scholarships.

The Four University Scholarships.

The President's (Sears) Scholarship.

The Six Alva Wood Scholarships.

The James H. Duncan Scholarship.

The Isaac Davis Scholarship.

The Arnold Whipple Scholarship, founded by Mrs. Arnold Whipple.

The Ephraim Wheaton Scholarship, founded by James Wheaton.

The Joseph Brown Scholarship, founded by Mrs. E. B. Rogers.

The Gardner Colby Scholarship.

The Crocker Scholarship, founded by Robert H. and Thomas P. Ives, trustees.

The Clark Scholarship, also founded by the Messrs. Ives.

The George K. and H. A. Pevear Scholarship.

The Joseph C. Hartshorn Scholarship I.

The Rogers High School Scholarship, founded by William Sanford Rogers.

The James Wheaton Scholarship.

The Charles Thurber Scholarship.

The Pardon Miller Scholarship, founded by Mrs. Ann E. Miller.

The Hezekiah S. Chase Scholarship.

The William Bucknell Scholarship.

The Austin Merrick Scholarship, founded by Mrs. Olive E. Merrick.

The Horatio N. Slater Scholarship.

The Earl P. Mason Scholarship.

The Newport Scholarship, founded by William Sanford Rogers.

The Alexis Caswell Scholarship.

The Three (Henry) Jackson Scholarships.

The Mumford Scholarship, founded by Mrs. Louisa D. Mumford.

The Albert Day Scholarship.

The Henry P. Kent Scholarship.

The Romeo Elton Scholarship.

The Five Annie E. Waters Scholarships.

The L. Fairbrother Scholarship, founded by Mrs. L. Fairbrother.

The George Lawton Scholarship.

The John P. Crozer Scholarship, founded by Mrs. Margaret Bucknell.

The James Y. Smith Scholarship.

The Two S. S. Bradford Scholarships.

The Francis R. Arnold Scholarship.

The Cornelia E. Green Scholarship.

The Henry Clifford Knight Scholarship, founded by Miss Amelia S. Knight, in memory of her brother, a member of the class of 1875.

The Thurston Scholarship, founded by Hon. Benjamin F. Thurston.

The Rufus Babcock Scholarship, founded by Mrs. Caroline Vassar Babcock Jones, in memory of her father, Rev. Rufus Babcock, D. D., of the class of 1821.

The James Fletcher Blackinton Scholarship, founded by Mrs. Mary D. Blackinton, in honor of her husband, James Fletcher Blackinton, of the class of 1847.

The Five William A. White Scholarships, founded by Mrs. Abby S. A. White, in honor of her husband, William A. White, of the class of 1857.

The Richards Scholarship, founded by the Rev. William Coolidge Richards, of the class of 1837.

Besides the above scholarships there are others the assignment of which is made subject to special provisions. These are as follows:

The Bartlett Scholarship, of four thousand dollars, founded by Mrs. Elizabeth Slater Bartlett; the income to be "devoted to the support of one or more students needing pecuniary aid, and giving promise, by studious aims and by character and scholarship, of rising to distinction and usefulness."

The Glover Scholarships, of five thousand dollars, founded by Henry R. Glover, "in memory of his father, Samuel Glover, of the class of 1808, and of his brother, Samuel Glover Jr., of the class of 1839." Assignment is made upon the basis of character and attainments.

The Rebecca A. Wheeler Scholarship, of fifteen hundred and seventy-one dollars, founded by the lady whose name it bears; the income to assist some worthy student, preferably a candidate for the Baptist ministry.

The Scholarship of the Class of 1838, of thirty-eight hundred dollars, founded by members of the class of 1838, and assigned upon the basis of character and scholarship.

The Joseph Charles Hartshorn Scholarship II, of two thousand dollars, founded by the gentleman whose name it bears.

The George J. Sherman Scholarships I and II, of one thousand dollars each, founded by the gentleman whose name they bear.

The S. Dryden Phelps Scholarship, of one thousand dollars, founded by the Rev. S. Dryden Phelps; the income to be given each year to some student who is preparing for the Baptist ministry.

The Banigan Scholarships I and II, of twenty-five hundred dollars each, founded by Joseph Banigan; the income, as far as necessary, to be used each year to defray the tuition of two students of the University. The founder reserves "the right to nominate the persons to have the benefit of these scholarships, the nominees always to be satisfactory to the authorities of the University, and subject to the rules which it prescribes for all holders of its scholarships."

The George Ide Chace Scholarship, of five thousand dollars, founded by Professor George Ide Chace; the income to be assigned each year by the Faculty to some member of the Senior class, needing the same, who shows "marked ability, exemplary industry, generous aspirations and irreproachable character."

The Abby Wheaton Chace Scholarship, of four thousand dollars, also founded by Professor George Ide Chace; the income to be assigned yearly by the Faculty to some member of the Junior class, needing the same, who shows "marked ability, exemplary industry, generous aspirations and irreproachable character."

If in either the Senior or Junior class there chance to be no person fulfilling the requirements, the proceeds of the scholarship for that year must, under the proper direction, be appropriated to the purchase of books for the library of the University.

For the year 1896-97 the George Ide Chace Scholarship was awarded to

Gregory Dexter Walcott

and the Abby Wheaton Chace Scholarship was awarded to

Louis Allen Crocker.

## Loan Fund

This is a small fund the income of which is applied, in the way of small loans for short terms, to the assistance of deserving young men of limited means.

# PREMIUMS AND PRIZES

## For Excellence in Preparatory Studies

### THE PRESIDENT'S PREMIUMS

These are derived from the income of a fund presented to the University by the Rev. Francis Wayland, D. D., while President. They are awarded each year to those members of the Freshman class who are found upon special examination to have attained the highest excellence in the studies required for admission to college in Greek, Latin and French. For the highest attainment in each of these studies a first premium of twenty dollars is awarded; for the next highest, a second premium of ten dollars.

The examinations for the premiums deal with the general principles and laws of the languages involved rather than with irregularities and exceptions. Great importance is attached to the pupil's familiarity with the subject-matter of the works read, and to his ability to translate with accuracy and facility into clear, appropriate and idiomatic English.

The examination in Greek occurs on the second Saturday of the first term, that in Latin on the third Wednesday, and that in French on the fourth Wednesday.

The award of these premiums for the present year was as follows:

#### Greek

The First Premium to Frank Thurston Hallet, instructed by William T. Peck, D. Sc., in the Providence High School.

The Second Premium to Clarence Elnathan Norris, instructed by D. W. Abercrombie, A. M., in Worcester Academy.

#### Latin

The First Premium to Harry Kay Poole, instructed by Miss Mary Homer, in the High School, Taunton, Mass.

The Second Premium to Harold Stearns Capron, instructed by William T. Peck, D. Sc., in the Providence High School.

French

The First Premium to Clarence Elnathan Norris, instructed by Fred D. Aldrich, A. B., in Worcester Academy.

The Second Premium to Frank Thurston Hallet, instructed by Miss Harriet M. Hathaway, A. B., in the Providence High School.

### THE HARTSHORN PREMIUMS

These are derived from the income of a fund of one thousand dollars, presented to the University by Joseph C. Hartshorn, A. M., of the class of 1841. The income furnishes three premiums, which are awarded to those members of the Freshman class who are found, upon examination, to excel in the preparatory mathematical studies. The examination occurs on the third Saturday of the first term.

The award of these premiums for the present year was as follows:

The First Premium to Herbert Hamlin Armington, instructed by Miss Emily Meader, A. B., in the Providence High School.

The Second Premium to Charles Huntington Potter, instructed by Walter J. Towne, A. M., in the English and Classical School, Providence.

The Third Premium to Charles Pickett Roundy, instructed by Miss E. A. Davis, in the High School, Beverly, Mass.

## For Excellence in College Studies

### THE CARPENTER PRIZES FOR ELOCUTION

These prizes, of sixty, thirty-six and twenty-four dollars, are derived from the income of a fund established by Thomas Carpenter, and are awarded annually to the three members of the Sophomore class to whom are assigned, respectively, the first, the second and the third rank of excellence in elocution. The assignment is made by a committee appointed for the purpose, and after a public contest held on the Monday evening before Commencement.

The competitors must be members of the Sophomore class. They may declaim pieces in either prose or verse, selected from English authors. These selections must be approved by the

Instructor in Public Speaking. Competitors are to enter their names with this instructor not later than the first day of May.

The Committee of Award consists of five members, and is formed as follows: the Professor or the Instructor in Public Speaking, who is the chairman; two persons elected by the Corporation; and two elected by the Sophomore class during the first term of the year; no one who is or has been a member of the class is eligible.

The Committee for 1896 awarded the prizes as follows:

The First Prize to Warren Earl Greene.

The Second Prize to George Edward Walker.

The Third Prize to John Henry Kelaghan.

## THE HICKS PRIZES FOR EXCELLENCE IN DEBATE

These are derived from the income of a fund presented to the University by the Hon. Ratcliffe Hicks, of the class of of 1864. They are annually awarded to the two members of the Junior class who, in the judgment of a carefully selected committee, display the greatest ability in debate. The contest is held on the evening before Class Day.

For the year 1896 the prizes were awarded in equal parts to

Gregory Dexter Walcott
and
John Howard Deming.

## THE DUNN PREMIUM

A fund amounting to somewhat over eight hundred dollars was presented to the University by pupils and friends of the late Professor Robinson Potter Dunn, D. D., the income to be given, at the end of the Junior year, to the student having the highest standing in rhetorical studies, "rhetorical studies" meaning here those in the department of Rhetoric and Oratory. The nomination for the premium is made by the officers in this department, and has regard to the number of studies which competitors have taken as well as to the rank which they have attained therein.

For the year 1895-96 the premium was awarded to

Edwin Cornelius Broome.

## THE CARPENTER PREMIUMS

These two premiums, of sixty dollars each, are derived from the income of a fund established by Thomas Carpenter and Lydia Carpenter. They are assigned at the end of the Senior year to the two members of the Senior class who, "already on scholarships, shall, in the judgment of the Faculty, unite in the highest degree the three most important elements of success in life—ability, character and attainment."

For the year 1895-96 the Carpenter Premiums were awarded to

Gardner Kirk Hudson

and

Irving Henry Gamwell.

## THE HOWELL PREMIUM

This fund, amounting to one thousand dollars, was presented to the University by the late Gamaliel Lyman Dwight. The income is given at the close of the second term of the Senior year to the student who, "having a good record of deportment, has the highest rank in Mathematics and Natural Philosophy." To be considered a candidate for the premium, a student must, each term from the Freshman year to the end of the second term in the Senior year, select at least one of the elective studies offered in Pure or Applied Mathematics.

For the year ending 1895-96 this premium was awarded to

Chester Stanley Churchill.

## THE CLASS OF 1873 PRIZE

A fund amounting to five hundred dollars was presented to the University by the class of 1873, on the condition that its income should be used as a prize for an essay. The prize is annually offered for competition to members of the Senior class, the subject being of an historical nature one year, of a philosophical nature the next. In 1896 it was historical.

On Commencement Day, June 17, 1896, the President announced the award of this prize to

Charles Reginald Easton.

## THE FOSTER PREMIUM IN GREEK

This premium is derived from the income of a fund of three thousand dollars bequeathed to the University by the late Hon. LaFayette Sabine Foster, LL. D., of the class of 1828. In accordance with the terms of the donor's will, the income of this fund is to be "annually paid to that scholar of the institution who passes the best examination in the Greek language, the examination to be made in the first, third and twenty-fourth books of Homer's Iliad or in the Oration on the Crown by Demosthenes."

The next examination, open to the members of the Senior class, will be held early in May, 1897. Candidates will be examined in the Oration on the Crown.

On Commencement Day, June 17, 1896, the President announced the award of the prize to

Allan Buell Bicknell.

A collateral prize of equal value was at the same time awarded, for an examination of equal merit, to

Flora May Holt.

## THE LUCIUS LYON PREMIUMS IN LATIN

These are derived from the income of a fund of five thousand dollars presented to the University by Mrs. Caroline L. Lyon, in memory of her husband, Lucius Lyon, of the class of 1844. Five-tenths of the income each year form the first premium, three-tenths the second, and two-tenths the third. Any part of the income not needed in any given year must be adedd to the fund. The premiums are awarded only as the result of a special examination held during the last term of the Senior year, and only for real merit. The examination may relate to the Latin language, Roman literature, Roman history, or partly to one of these subjects and partly to another or to both the

others. The President of the University and the head of the Latin department prescribe for admission to the examination such conditions as in their judgment will secure the best results.

For the year 1895-96 the prizes were awarded as follows:

The First Prize to Albert Swift Morse.

The Second Prize to Henry Herbert Waterman.

A Collateral Second Prize of equal value, for an examination of equal merit, to Flora May Holt.

The Third Prize to Allan Buell Bicknell.

A Collateral Third Prize of equal value, for an examination of equal merit, to Mabelle Alice Caffrey.

## SENIOR ESSAY MEDAL

The National Society of the Sons of the American Revolution offers for competition at the annual Commencement, a silver medal, to be awarded by the Faculty on behalf of the society, for the best Senior essay containing not less than 1600 and not more than 2000 words, upon the principles fought for in the American Revolution. The medal bears the name of the winner and the name of the University. The competition at Brown University is in the charge of the department of Rhetoric and Oratory.

A copy of the prize essay from each institution where the competition occurs is sent to the President-General of the society. These essays are referred to a select committee of the society, which awards to the writer of the one it deems the most meritorious a gold medal, of the value of one hundred dollars.

In 1896 the silver medal was awarded to

Champlin Burrage.

## THE GASTON PRIZE MEDAL FOR EXCELLENCE IN ORATORY

In 1894 the widow and children of Hon. William Gaston, of the class of 1840, and afterward Governor of Massachusetts,

donated to the University the sum of three thousand dollars, from the income of which there is to be annually provided a gold medal bearing the name "William Gaston," to be awarded to that member of the graduating class "who shall write and at Commencement pronounce in English the best oration."

Any member of the Senior class, in good standing, may compete for the medal provided he has been five full terms at the University, and has regularly attended and faithfully performed the work in elocution and oratory required during the course, showing himself proficient as a speaker and writer. Each competitor is required to deposit in the Registrar's office, on or before noon of the first Monday in the Spring term, an oration of his own composition, type-written and signed with his name. No oration as completed for delivery may consist of more than one thousand words. Before it is delivered at Commencement each oration must be rehearsed at least five times before the Professor or Instructor in Oratory, such rehearsals to be completed at least one week before Commencement Day. At the first rehearsal each speaker is required to hand to the Professor in Rhetoric and Oratory an autograph copy of his oration for preservation in the University library.

The Committee of Award consists of three persons not members of the Faculty, to be selected as follows: one by the President of the University, one by the Faculty, and one by the contestants. No speaker at Commencement is permitted to make use of a prompter. The members of the committee take into account thought, composition and delivery.

On Commencement Day, June 17, 1896, the Gaston medal was won by

Sumner Redway Vinton.

## SPECIAL HONORS, CLASS OF 1896

### For the Freshman Year

| | |
|---|---|
| Mabelle Alice Caffrey, | Latin |

### For the Sophomore Year

| | |
|---|---|
| Samuel Belden Churchill, | German, French |
| Clarence Mason Gallup, | Greek |
| Irving Henry Gamwell, | German |
| George Hopkinson, | Latin |
| Albert Swift Morse, | German, Italian |
| Theodore Clarkson Merrill, | German |
| Henry Lawrence Smith, | German |
| Everett Lewis Walling, | German |

### For the Junior Year

| | |
|---|---|
| Justin Homer Bacon, | German |
| Allen Buell Bicknell, | Latin |
| Clarence Mason Gallup, | Oratory |
| Albert Swift Morse, | German |
| Theodore Clarkson Merrill, | German |
| Harry Luke Thompson, | Astronomy, Meteorology |
| Grace Mabelle Cleveland, | History |
| Emma Bradford Stanton, | History |
| Florence Josephine Whiting, | History |

### For the Senior Year

| | |
|---|---|
| Justin Homer Bacon, | Spanish |
| Allen Buell Bicknell, | Greek |
| Marcus Wilson Jernegan, | History |

# DEGREES CONFERRED IN 1896

## Degrees in Course

### THE DEGREE OF BACHELOR OF ARTS

ON

John Henry Harlow Alden
James Ellis Ames
Charles Montgomery Angle
Justin Homer Bacon
Allen Buell Bicknell
William Carpenter Bliss
Champlin Burrage
Samuel Belden Churchill
George Ellett Coghill
Robert Harvey Day
Charles Frederick Deacon
Horace Paul Dormon
Gasherie De Witt Dowling
Robert William Drawbridge
Charles Reginald Easton
George Frederick Frost
Clarence Mason Gallup
Irving Henry Gamwell
Seth Ashley Gibson
George Francis Green
Ronald Conrad Green
Harry Sylvester Greene
Carl Lester Holmberg
George Hopkinson
Herbert Bradford Horton
Gardner Kirk Hudson
John Mercer Hunt
Henry Felton Huse
Marcus Wilson Jernegan
William Augustine Jones
Alvan Alden Kempton
Howard Day Kenyon
Herbert Bowman Lang
Abraham LeGrand
George Arnold Matteson
William Alexander McAuslan
Alfred Bertrand Meacham
Haven Metcalf
William Francis Miner
Wesley Elias Monk
Albert Swift Morse
Edward Baily Morse
Anthony Ambrose Mulligan
John Samuel Murdock
Albert Rodman Nichols
Ernest Victor Page
Edward Stark Parker
George Lincoln Parker
Tristram Cleveland Phinney
William Edward Price
Elmer Jeremiah Rathbun
James Helme Richard Jr.
Will Austin Robinson
James Wylie Ross
William Webster Rugg
William Briggs Savery
Jesse Fowler Smith
John William Smith
Samuel Richmond Stratton
James Humphrey Thurston
George Bickford Van Doren
Joseph Canfield Van Doren
Sumner Redway Vinton
Everett Lewis Walling
Henry Herbert Waterman
Robert Young

Mabelle Alice Caffrey
Grace Mabel Cleveland
Flora May Holt
Florence Josephine Whiting

## THE DEGREE OF BACHELOR OF PHILOSOPHY

ON

Carroll Harry Ash
Edward Everett Bucklin
Joseph Richard Bullock Jr.
Arthur Deerin Call
Lewis Marsh Carr
Leon Hayes Denison
John Blair Edwards
Theodore Clyde Foster
Carleton Hale
Daniel Mansfield Hoyt
Frederick Augustus Jones
Edward Allen Locke
Harry Saxton Mabie
Ernest Hoxsie Mathewson
Stewart Alfred McComber
Theodore Clarkson Merrill
Charles Palmer Nott
William Pierce Otis
Jessie Bell Owen
Robert Simmons Phillips
Edward North Robinson
Henry Hall Rockwell
Robert Clark Sanger
Frank Edward Smith
Henry Lawrence Smith
Howard Revere Smith
Charles Sumner Stedman
William Harris Steere
Allison Stone
Mason Martin Swan
Harry Luke Thompson
Robert Churchill Vose

Sarah Jennie Bullock
Margaret May Landon
Emma Bradford Stanton
CharlotteLusanneTillinghast
Edith Holmes Williston

## THE DEGREE OF CIVIL ENGINEER

ON

Chester Stanley Churchill
Oscar Francis Bellows

## THE DEGREE OF MECHANICAL ENGINEER

ON

William Herbert Kenerson

## THE DEGREE OF MASTER OF ARTS

After Examination

ON

John Barlow B. S.
Arthur Train Belknap A. B.
John Elof Boodin A. B.
Walter Guyton Cady B. P.
Rachel Leedom Moore, B. S.
Frank Warren Sleeper B. P.
Frederick Slocum A. B.
Walter Edward Smith A. B.

Seth Howard Chace A. B.
Stafford Clarence Edwards
A. B.
George Andrew Gordon A. B.
George Robinson Hazard A. B.
Elijah Abraham Hanley A. B.
George Plumer Merrill A. B.
Morton Collins Stewart, B. P.
Ellen Appleton Stone A. B.
Frank Arthur Updike A. B.
Harry Clifford Whipple B. P.
Frank Edward Winsor, B. P.
Ada Geneva Wing A. B.
Alfred Reynolds Wightman

### THE DEGREE OF DOCTOR OF PHILOSOPHY

After Examination

ON

Goldsberry Bobo Merritt A. M.
Charles Marshall Poor A. M.
Otis Everett Randall A. M.
Augustus Taber Swift A. M.

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## Honorary Degrees

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### THE DEGREE OF BACHELOR OF PHILOSOPHY

ON

James Franklin Collins

### THE DEGREE OF MASTER OF SCIENCE

ON

Nathaniel Greene Herreschoff

### THE DEGREE OF DOCTOR OF LETTERS

ON

Oscar Solomon Strauss
James Cooley Fletcher

### THE DEGREE OF DOCTOR OF DIVINITY

ON

William Henry Lyon
George Edwin Horr Jr.

### THE DEGREE OF DOCTOR OF LAWS

ON

Horace Sumner Tarbell
George Miller Sternberg

# STUDENTS

## GRADUATES

### CANDIDATES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

JOHN ELOF BOODIN *Pawtucket* 15 Church St.
Brown University A. B. 1895; A. M. 1896

EDMUND CODY BURNETT *Mossy Creek, Tenn.* 196 Bowen St.
Brown University A. B. 1890; A. M. 1895
History, Greek, Political Economy

CLARA ELIZABETH COMSTOCK *Providence* 550 Broad St.
Brown University B. P. 1895
English, Philosophy, Romance Languages

STEPHEN SHELDON COLVIN *Riverpoint* Germany
Brown University B. P. 1891; A. M. 1894
Philosophy, English

CHARLES HOBEN DAY 33 Benevolent St.
Brown University A. B. 1888; Acadia College A. M. 1891
Philosophy, Sociology

WILLIAM HOLDEN EDDY *Providence* 36 Bradford St.
Brown University A. B. 1891; A. M. 1894
German, Romance Languages

ADOLPH CONRAD ELY *Plantsville, Ct.* 30 Congdon St.
Brown University A. B. 1894; A. M. 1895
German, Romance Languages

MILLER MOORE FOGG JR. *Providence* 40 Angell St.
Brown University A. B. 1894; A. M. 1895
English, Rhetoric

EDWIN COLLINS FROST *Providence* 207 Smith St.
Brown University A. B. 1890
English, German, Romance Languages

FREDERIC POOLE GORHAM *Providence* 237 Knight St.
Brown University A. B. 1893; A. M. 1894
Geology, Comparative Anatomy

JOHN FRANCIS GREENE *Seekonk, Ms.* 127 Angell St.
Brown University A. B. 1891
Latin, History, German, Italian

ALBERT WALKER HINDS *W. Boylston, Ms.* W. Boylston
Brown University A. B. 1887; Harvard University A. M. 1889
Greek, Latin

ALBERT BUSHNELL JOHNSON *East Providence* East Providence
Brown University A. B. 1891; A. M. 1892
Romance Languages, German

ERNEST HENRY JOHNSON *East Providence* East Providence
Brown University A. B. 1891; A. M. 1892
German, Romance Languages

LEWIS HAMILTON MEADER *Providence* 21 Andem St.
Dartmouth College A. B. 1878; Brown University A. M. 1894
History, Political Science

WILLIAM WASHBURN MOSS *Providence* 231 Broadway
Brown University A. B. 1894; A. M. 1895
Political Science, Political Economy, Mathematics

WILLIAM OVERTON *Pawtucket* 142 High St.
Brown University A. B. 1887; A. M. 1890
German, History, Philosophy

SIDNEY ALGERNON SHERMAN *Providence* 249 Doyle Ave.
Amherst College A. B. 1885
Social Science, Political Science, Political Economy

JOHN SMITH SHIPPEE *East Greenwich* East Greenwich
Brown University A. B. 1894
Latin, Greek

FREDERIC SLOCUM *Providence* 229 Morris Ave.
Brown University A. B. 1895; A. M. 1896
Astronomy, Mathematics

MARTHA TARBELL *Providence* 169 Power St.
De Pauw University A. B. 1884; Brown University A. M. 1894
German, English

RALPH WINFRED TOWER *Providence* 397 Pine St.
Brown University A. B. 1892; A. M. 1893
Comparative Anatomy, Physiology

FREDERIC EARLE WHITAKER *Woonsocket* Woonsocket
Brown University A. B. 1888; A. M. 1892
Greek, Latin, Classical Archæology

MARY EMMA WOOLLEY *Pawtucket* Pawtucket
Brown University A. B. 1894; A. M. 1895
History

WALTER HARRIS YOUNG *Warren* Warren
Brown University A. B. 1890; A. M. 1892
Philosophy, Greek

HERRICK PLATT YOUNG *Providence* 5 Chapin Ave.
Brown University A. B. 1887; A. M. 1890
Latin, Ancient History

## CANDIDATES FOR THE DEGREE OF MASTER OF ARTS

### I. Fully in residence

AMEY OWEN ALDRICH *Providence* 8 Cushing St.
Smith College B. L. 1895
Pedagogy, English

CARROLL HARRY ASH *Lisbon, N. H.* Messer 16
Brown University B. P. 1896
Physics, Mathematics, Chemistry

JUSTIN HOMER BACON *Bellows Falls, Vt.* 214 Williams St.
Brown University A. B. 1896
Romance Languages, German, Physics

BEATRICE JENNIE BARKER *Providence* 357 Westminster St.
Brown University B. P. 1895
English, History, French

ALLAN BUELL BICKNELL *Providence* 30 Arch St.
Brown University A. B. 1896
Latin, Greek

JOSEPH RICHARD BULLOCK JR. *Providence* 30 Lockwood St.
Brown University B. P. 1896
Romance Languages, Rhetoric

FREDERICK OTIS CLAPP *Providence* 11 Bridgham St.
Brown University A. B. 1895
Physics, English

HOWARD DORRANCE DAY *Providence* 216 Medway St.
Yale University A. B. 1893
Physics, Mathematics

ROBERT HARVEY DAY *Providence* University 22
Brown University A. B. 1896
Pedagogy, History

ARTHUR LLEWELLYN ENO *Charlotte, Vt.* Saxtons River, Vt.
Brown University A. B. 1895
English, Rhetoric

SARAH MARIA FISHER *Melrose, Ms.* 11 Church St.
Boston University A. B. 1895
Metaphysics, Psychology

GEORGE FREDERICK FROST *Hyde Park, Ms.* Maxcy 209
Brown University A. B. 1896
Pedagogy, History

NETTIE SERENA GOODALE — 128 Mineral Spring Ave., Pawtucket
Brown University A. B. 1895
Philosophy, Political Economy

MINNIE ARABELLA HALL — *Providence* — 417 Pine St.
Wellesley College A. B. 1880
Pedagogy, English Literature

CLARENCE GRANT HAMILTON — *Providence* — 22 Portland St.
Brown University A. B. 1888
Music

HARRIET MAY HATHAWAY — *Providence* — 12 Marlborough Ave.
Boston University A. B. 1892
English, German, Romance Languages

GEORGE HOPKINSON — *Perkinsville, Vt.* — 194 Waterman St.
Brown University A. B. 1896
Pedagogy, Latin

ELIZABETH WATSON KENYON — *Providence* — 205 Waterman St.
Mt. Holyoke College A. B. 1895
History, Political Economy, Political Science

EDWARD ALLEN LOCKE — *Whitman, Ms.* — University 22
Brown University B. P. 1896
Comparative Anatomy

STEWART ALFRED MCCOMBER — *Globe Village, Ms.* — 112 George St.
Brown University B. P. 1896
Comparative Anatomy

LESTER MESEROLL — *Tiverton* — Tiverton
Brown University A. B. 1895
Biblical Literature, Oriental History

HAVEN METCALF — *Winthrop, Me.* — Hope 6
Brown University A. B. 1896
Biology, Botany

ALBERT SWIFT MORSE — *Fairhaven, Ms.* — 30 Congdon St.
Brown University A. B. 1896
Romance Languages, Latin

MARIA STORRS PECK — *Providence* — 106 George St.
Brown University B. P. 1895
History, History of Philosophy

WILLIAM EDWARD PRICE — *Brockton, Ms.* — Hope 44
Brown University A. B. 1896
Social Science

ALGERNON WAIT PUTNAM — *S. Lyndeboro, N.H.* — S. Lyndeboro
Brown University B. P. 1895
Romance Languages, German, Fine Arts

WILL AUSTIN ROBINSON — *Gloucester, Ms.* — University 21
Brown University A. B. 1896
Greek, English

| | | |
|---|---|---|
| Louis Alexandre Roux<br>Brown University A. B. 1894<br>Romance Languages, German | *New London, N. H.* | New London |
| Howard Cyrus Tilton<br>Shurtleff College A. B., B. S. 1895<br>Philosophy, Political Science, Pedagogy | *Providence* | 103 Hope St. |
| Arthur Eugene Watson<br>Brown University A. B. 1888<br>Physics, Mathematics | *Providence* | 66 Meeting St. |
| Florence Josephine Whiting<br>Brown University A. B. 1896<br>Pedagogy, Physics, History | *Plainville, Ms.* | 106 George St. |
| Nora Giralda Wright<br>Bates College A. B. 1895<br>Pedagogy, English | *Olneyville* | Olneyville |

II. Registered as *in absentia* yet resident near the University and able to enjoy certain of its privileges.

| | | |
|---|---|---|
| Ella Maria Adams<br>Smith College A. B. 1893<br>German | *Pawtucket* | 79 Cedar St. |
| Joseph Bridgham<br>Brown University B. P. 1867<br>Botany, Comparative Anatomy | *East Providence* | East Providence |
| Edward Norton Casey<br>Brown University, A. B. 1893<br>Social Science, History | *Whiting, Vt.* | 3 Angell Place |
| Jay Rogers Dickinson<br>Brown University B. P. 1895<br>English, French | *Providence* | 420 Angell St. |
| Caroline Ida Doane<br>Smith College A. B. 1892<br>Chemistry, Physics | *N. Attleborough, Ms.* | N. Attleborough |
| Hezekiah Anthony Dyer<br>Brown University B. P. 1894<br>Fine Arts | *Providence* | 154 Power St. |
| Edgar Benjamin French<br>Brown University A. B. 1890<br>German, Philosophy | *Pawtucket* | Pawtucket |
| Frank Edwin Lakey<br>Brown University A. B. 1894<br>Social Science, History, Pedagogy | *Providence* | 127 Cranston St. |
| Katherine Gertrude Lynch<br>Smith College A. B. 1894<br>History, English, Pedagogy | *N. Attleborough, Ms.* | 64 Allston St. |

| | | |
|---|---|---|
| EMOGENE MIRIAM MANNING<br>Brown University A. B. 1895<br>Astronomy, Pedagogy | *Providence* | Judson, Mass. |
| LILLIAN BURLEIGH MINER<br>Wellesley College A. B. 1889<br>English | *Providence* | 84 Melrose St. |
| WILLIAM ROBERT O'NEIL<br>Tufts College A. B. 1896<br>Metaphysics, Ethics | *Attleborough, Ms.* | Attleborough |
| ELIZA METCALF PEIRCE<br>Smith College A. B. 1889<br>Philosophy, English | *Providence* | 507 Broadway |
| JAMES ALDRICH PIRCE<br>Brown University A. B. 1892<br>History | *Johnston* | Johnston |
| WILLIAM JOB REYNOLDS<br>Brown University A. B. 1886<br>Oriental History | *Providence* | 268 Waldo St. |
| WALTER HERBERT RUSSELL<br>Boston University A. B. 1887<br>German, French | *Edgewood* | 20 Wheeler Ave. |
| ALICE RACHEL SHEPPARD<br>Boston University A. B. 1892<br>Fine Arts | *Providence* | 38 Congdon St. |
| LUCIAN SHARPE JR.<br>Brown University A. B. 1893<br>History, Political Economy | *Providence* | 56 Angell St. |
| KATHARINE MINERVA WATERMAN<br>Vassar College A. B. 1894<br>Fine Arts | *Providence* | 172 Pleasant St. |
| WALTER ALLEN YOUNG<br>Brown University B. P. 1891<br>Ethics, Pedagogy | *Providence* | 140 Doyle Ave. |

III. Fully *in absentia*.

| | |
|---|---|
| EMILY FRANCES ALLEN<br>Boston University B. P. 1891<br>English | Box 2177, *Boston, Ms.* |
| HENRY WARD BEECHER ARNOLD<br>Brown University A. B. 1893<br>Mathematics, Mechanics, Physics | *West Lebanon, N. H.* |
| SHARONTON HALE BAKER<br>Brown University A. B. 1883<br>Political Economy, Greek | *Willimantic, Ct.* |

EDWARD OTIS BARTLETT JR. — *Cornwall-on-Hudson, N. Y.*
Brown University A. B. 1891
German, French

JOSIAH BARTLETT — *Sing Sing, N. Y.*
Brown University B. P. 1888
Mathematics, German

ISABEL WARWICK BLISS — 235 Waterman St., *Providence*
Brown University A. B. 1895
Pedagogy, English, German

CHARLES EDWIN BURDETTE — *Gauhati, Assam, India*
Brown University A. B. 1880
Sanskrit

WILLIAM ALLEN CALDWELL — *Lebanon, Tenn.*
Cumberland College A. B. 1892
Greek, German, Latin, Spanish

HERSHEL LUTHER GARDNER — 118 45th St., *New York City*
Columbia College A. B. 1892
History

WILLIAM JOHN GREEN — 63 Irving Place, *New York City*
Brown University A. B. 1891
Ethics, History

DANIEL HOWARD — *Wallingford, Ct.*
Brown University A. B. 1893
History, Social Science, Political Economy

EDWIN KNOWLES JR. — 47 Stewart St., *Providence*
Brown University B. P. 1894
Music

ARTHUR JOSEPH LLEWELLYN — *Kenwood, Cal.*
Brown University A. B. 1893
Philosophy, English

SETH PADELFORD REMINGTON — *Cambridge, Ms.*
Brown University A. B. 1894
History, Roman Law

HERBERT HOWARD RICE — 221 Columbus Ave., *Boston, Ms.*
Brown University A. B. 1892
Political Economy, History

ARTHUR W. RIDER — 6 Barnard Park, *Los Angeles, Cal.*
Illinois College A. B. 1886
History, Philosophy

EDITH HOLMES WILLISTON — 18 Harrison St., *Providence*
Brown University B. P. 1896
Pedagogy, Latin

FRANK EDWARD WINSOR — 93 Lincoln St., *Boston, Ms.*
Brown University B. P. 1891; C. E. 1892
Mechanics, Geology

## STUDENTS ON SPECIAL COURSES

WALTER GUYTON CADY *Providence* 127 Power St.
Brown University B. P. 1895; A. M. 1896
Physics, Mathematics

EMMA HELENA GREGORY *Providence* 29 Ann St.
Wellesley College A. B. 1891
Pedagogy

LILLIAN JAMESON *Providence* 9 Benevolent St.
Smith College A. B. 1890
Psychology

WILLIAM HERBERT KENERSON *Providence* 259 Waldo St.
Brown University M. E. 1896
Mathematics

RUTH MITCHELL MANN 284 Broad St., Central Falls
Vassar College A. B. 1896
Pedagogy, Greek

MARGARET MORTON 487 Rock St., Fall River, Ms.
Vassar College A. B. 1892
History

WILLIAM HOWARD POWERS *Pawtucket* 70 Summit St.
Miami University A. B. 1891; A. M. 1896
Mathematics

ALVIN DWIGHT SHEPARD *Valley Falls* Valley Falls
Bates College A. B. 1892
History, Rhetoric, Fine Arts, Hebrew

LUCIEN EDWARD TAYLOR *Providence* 158 Whitmarsh St.
Brown University A. B. 1895; Harvard University A. M. 1896
Romance Languages, Philosophy, Rhetoric

CHARLOTTE LUSANNE TILLINGHAST *Providence* 260 Waterman St.
Brown University B. P. 1896
Psychology

BESSIE SARAH WARNER *Providence* 114 Taber Ave.
Smith College A. B. 1895
Pedagogy

HENRY HERBERT WATERMAN *Providence* 22 Baker St.
Brown University A. B. 1896
Pedagogy

HARRY CLIFFORD WHIPPLE *Providence* 189 Academy Ave.
Brown University B. P. 1895; A. M. 1896
English

## INVESTIGATORS IN THE DEPARTMENT OF COMPARATIVE ANATOMY

| | | |
|---|---|---|
| Myron Wilder Stickney | *Brownville, Me.* | 62 George St. |
| Bates College A. B. 1894; Brown University A. M. 1895 | | |
| Louis Dexter | *Providence* | 120 Brown St. |
| A. H. Nickerson | *Central Falls* | 400 Dexter St. |
| Harvard Medical School M. D. 1882 | | |
| Ada Geneva Wing | *Palmer, Ms.* | Medway St. |
| Wellesley College A. B. 1887; Brown University A. M. 1896 | | |

# Undergraduates

## Senior Class

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Samuel Adams | *West Haven, Vt.* | 117 George St. |
| Arthur Moulton Allen | *Providence* | Hope 44 |
| Charles Henry Allen | *Needham, Ms.* | University 30 |
| Chester Willard Allen | *East Boston, Ms.* | Hope 3 |
| Horatio Cushing Allen | *Marion, Ms.* | Hope 22 |
| Raymond Cleaveland Allen | *Manchester, Ms.* | Howell 4 |
| Seril Clemence Armstrong | *Woonsocket* | Hope 15 |
| Fred Atwell Arnold | *Pawtucket* | Maxcy 211 |
| Martin Hollis Arnold | *Providence* | Hope 26 |
| James Hope Arthur | *Providence* | Slater 13 |
| Arthur Francis Ballou | *Woonsocket* | Hope 15 |
| William John Ballou | *Wallingford, Vt.* | University 28 |
| Waldo Reynolds Bartlett | *Burrillville* | Hope 19 |
| Roscoe Hosmer Belknap | *Framingham, Ms.* | Hope 31 |
| Henry Wells Newell Bennett | *Manchester, N. H.* | Hope 32 |
| Charles Knowles Bidwell | *Warren Pr Mills N. J.* | University 28 |
| Horace Greeley Bissell | *Apponaug* | Maxcy 209 |
| George Miles Bliss | *East Providence* | 19 College St. |
| Fred Emerson Briggs | *Attleborough, Ms.* | University 19 |
| Howard Bowen Briggs | *Providence* | University 48 |
| Edwin Cornelius Broome | *Central Falls* | Hope 24 |
| Clarence Rhodes Budlong | *Providence* | 189 Governor St. |
| Paul Revere Bullard | *Waltham, Ms.* | 37 Creighton St. |
| *Alfred Walker Bullock | *Pawtucket* | Maxcy 211 |
| Arthur Hale Chamberlain | *Portland, Me.* | Hope 26 |

*Deceased

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Allen Herbert Chase | *Providence* | University 12 |
| Marion McAllister Clarke | *Newport* | Hope 39 |
| Charles Eugene Clift | *Middlet'n Sp'gs, Vt.* | Howell 3 |
| Everett Colby | *New York, N. Y.* | Slater 10 |
| William Coleman | *Valdosta, Ga.* | Maxcy 432 |
| Elijah William Collins | *Pawtucket* | Slater 10 |
| Maurice Howe Cooke | *Providence* | University 19 |
| James Parker Coombs | *Pleasant Dale, Me.* | 112 George St. |
| Arthur Maxson Cottrell | *Westerly* | Hope 7 |
| George Rice Coughlan | *Adams, N. Y.* | Hope 37 |
| John Harrington Cox | *St. Louis, Mo.* | Hope 13 |
| Eben Creighton | *Thomaston, Me.* | 33 Benevolent St. |
| Lefferts Mason Dashiell | *Lakewood, N. J.* | Slater 10 |
| John Howard Deming | *Beachmont, Ms.* | Howell 3 |
| Robert Stephen Emerson | *Pawtucket* | Maxcy 211 |
| William Milnes Faux | *Patterson, N. J.* | Howell 9 |
| Carl Russell Fish | *Providence* | 18 Cabot St. |
| Timothy Aloysius Fitzgerald | *Millville, Ms.* | Millville |
| Frank Ballou Follett | *Ashton* | Hope 48 |
| Albert Orson Foster | *Utica, N. Y.* | University 49 |
| George Stephenson Fox | *Fall River, Ms.* | 21 Brown St. 8 |
| George Wilsey Gates | *Otego, N. Y.* | Hope 9 |
| Will Friend Geisler | *Holbrook, Ms.* | Messer 9 |
| Charles Wilson Goodwin | *Providence* | 154 Point St. |
| Herlwyn Ruggles Green | *Providence* | 14 John St. |
| Albert Angus Griffin | *Fr'nklin Falls, N.H.* | 21 Brown St. 7 |
| Russell Grinnell | *New Bedford, Ms.* | University 25 |
| Sanford Keith Gurney | *Brockton, Ms.* | Slater 14 |
| Augustin Powell Hamlin | *Newport* | Maxcy 208 |
| Arthur Murray Hancock | *Fr'nklin Falls, N.H.* | Hope 43 |
| William Rae Harper | *Erie, Pa.* | 47 Benevolent St. |
| Charles Augustus Harris | *Fairhaven, Ms.* | Hope 47 |
| Ralph Bertram Harris | *Salem, Ms.* | Slater 5 |
| William Andrew Harris Jr. | *Providence* | 60 Barnes St. |
| George Coggeshall Hatch Jr. | *New Bedford Ms.* | Hope 29 |
| Russell Hathaway Jr. | *Fairhaven, Ms.* | Hope 47 |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Daniel Franklin Holmes, | *Providence* | Hope 39 |
| Leonard Wheaton Horton | *Providence* | 47 Wilson St. |
| Sidney Daniels Humphrey | *Providence* | Hope 43 |
| Frank Oscar Jones | *Providence* | University 16 |
| John Joseph Lace Jr. | *Pascoag* | University 53 |
| William Setchell Learned | *Berkeley, Cal.* | 33 Benevolent St |
| Charles Ervin Lewis | *Yarmouth, N. S.* | University 13 |
| Clarence Hart Lingham | *Boston, Ms.* | Hope 10 |
| Benj. Thomas Livingston | *Pawtucket* | Pawtucket |
| Marcus Ward Lyon Jr. | *Newark, N. J.* | 33 Benevolent St. |
| Herbert Allen Matteson | *Anthony* | Hope 5 |
| William Vincent McCready | *Providence* | Hope 35 |
| Arthur Milton McCrillis | *Providence* | University 48 |
| Marcius Harold Merchant | *Warren* | University 10 |
| Isaac Butts Merriman | *Nayatt Point* | Maxcy 323 |
| Howard Tucker Metcalf | *Providence* | 180 Bowen St. |
| Herbert Cleveland Miller | *Williamsburg, Ms.* | Hope 38 |
| George Leland Miner | *Providence* | University 38 |
| William James Noble | *Boston, Ms.* | 33 Benevolent St |
| Jas. Roberts Decrevi Oldham | *E. Providence* | E. Providence |
| Charles Dexter Owen Jr. | *Providence* | Maxcy 324 |
| Thomas Edward Owens | *Philadelphia, Pa.* | Maxcy 432 |
| Chas. Leslie Fairbanks Paull | *Somerset, Ms.* | 21 Brown St. 12 |
| William Burgess Peck | *Providence* | Maxcy 315 |
| William Torrey Peckham | *Providence* | University 26 |
| Harold Wilder Perkins | *Woonsocket* | Slater 12 |
| Walter Dabney Phillips | *Richmond, Va.* | Pease House 9 |
| John Estey Warner Piddock | *Hartford, Ct.* | Hope 42 |
| Jared Harvey Randall | *Leo, O.* | 112 George St. |
| Arvid Reuterdahl | *Providence* | 325 Willard Ave. |
| Joseph Chandler Robbins | *Concord, N. H.* | 112 George St. |
| John Davison Rockefeller Jr. | *New York, N. Y.* | Slater 11 |
| Francis Augustus Rugg | *Perkinsville. Vt.* | University 51 |
| Frank Page Sackett | *Providence* | 177 George St. |
| Wilbur Allen Scott | *Providence* | Hope 25 |
| Walter Cyrus Sherman | *East Dover, Vt.* | Hope 2 |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| George Thurston Spicer | *Providence* | Slater 16. |
| Harris Elwood Starr | *Providence* | Hope 38. |
| Hiram Austin Stearns | *Manchester, N. H.* | Hope 46. |
| Harry Griffin Stephens | *B'dge Hamp'n, N. Y.* | 20 Franklin St. |
| Arthur Crowell Stone | *Providence* | University 41. |
| Herbert Lewis Swan | *Charlotte, Me.* | 344 Broad St. |
| Jonathan Taylor | *Akron, O.* | Maxcy 206. |
| William Henry Thornley Jr. | *Pawtucket* | Hope 4. |
| Walter Roy Tourtellot | *Olneyville* | Olneyville. |
| Charles Wayland Towne | *Auburn, Me.* | Slater 17. |
| James Tucker Jr. | *Providence* | 51 Waterman. St. |
| Ernest Edward Tyzzer | *Wakefield, Ms.* | Hope 31. |
| Howard Harris Utley | *Providence* | University 12. |
| Howard Mason Van Gelder | *Catskill, N. Y.* | Slater 19. |
| Gregory Dexter Walcott | *Warren* | Hope 4. |
| Byron Sprague Watson | *Providence* | Maxcy 324. |
| Frank Elbert Watson | *Springfield, Ms.* | 127 Angell St. |
| Frank Rowland Wheeler | *Mystic, Ct.* | Hope 21. |
| Guy Montrose Whipple | *Danvers, Ms.* | University 51. |
| Charles Ernest White | *Bellows Falls, Vt.* | University 46. |
| David Mitchell White | *Worcester, Ms.* | Hope 42. |
| Roswell Storrs Wilcox | *Providence* | Hope 27. |

## Junior Class

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Edward Lawrence Adams | *Ashland, Ms.* | 23 Howell St. |
| Paul Edwin Aldrich | *Providence* | Slater 12 |
| James Sidney Allen Jr. | *E. Bridgewater, Ms.* | Slater 18 |
| Audubon Arms | *East Greenwich* | East Greenwich. |
| Frederick William Arnold Jr. | *Providence* | Slater 1 |
| Harlan Judson Ballentine | *No. Attleboro'h, Ms.* | University 34 |
| Albert Armington Barrows | *Providence* | University 53 |
| Dwight Kellogg Bartlett | *Providence* | 103 So. Angell St. |
| Oren Nelson Bean | *Brentwood, N. H.* | Pease House 18 |
| Charles Everett Bosworth | *Warren* | Warren |
| Pliny Arthur Boyd | *Woodbury, Ct.* | Hope 3 |
| Charles Bradley Jr. | *Providence* | Slater 6 |
| Arthur Mason Briggs | *W. Mansfield, Ms.* | Hope 1 |
| Arthur Palmer Briggs | *Dighton, Ms.* | Pease House 18 |
| William Henry Buffum | *Providence* | 190 Hope St. |
| Thomas Jayne Burrage | *Portland, Me.* | Hope 5 |
| William Hamlin Cady | *Providence* | Slater 7 |
| Hazen Albert Calhoun | *Cambridgeport, Ms.* | Howell 5 |
| Charles Carroll | *Providence* | 131 Tockwotten St. |
| Melvin Francis Church | *Drownville* | Drownville |
| John Winthrop Comey | *New York, N. Y.* | Slater 5 |
| George Edgar Congdon Jr. | *Cranston* | University 51 |
| Rufus Edward Corlew | *Cortland, N. Y.* | University 16 |
| Gardner Cornett | *Providence* | Slater 6 |
| Henry John Corrigan | *Providence* | Maxcy 313 |
| Frank Goodwin Crane | *Toledo, O.* | University 33 |
| Louis Allen Crocker | *Brewster, Ms.* | Pease House 6 |
| Clinton Harvey Currier | *Manchester, N. H.* | Hope 46 |
| Thomas Wesley Dammes | *New York, N. Y.* | Messer 15 |
| Earnest Lincoln Darling | *Providence* | 109 Jewett St. |

| NAME. | RESIDENCE | ROOM |
|---|---|---|
| Walter David Devault | *Flourville, Tenn.* | University 30 |
| Theodore Everett Dexter | *Central Falls* | Hope 27 |
| George Leonard Drowne | *Providence* | University 21 |
| Albert Milton Dunham | *Attleborough, Ms.* | Providence |
| Chas. DeMarcus Payne Eaton | *Providence* | 24 Kenyon St. |
| Charles Francis Eddy | *Lime Rock* | Lime Rock |
| Howard Wayland Farnum | *Chepachet* | Hope 9 |
| Joseph Henry Farrell | *Pawtucket* | Pawtucket |
| Wirt T. Fellows | *McMinnville, Ore.* | Messer 12 |
| John Kelsey Fenner | *Johnston* | University 34 |
| John Burnham Ferguson | *Providence* | Maxcy 314 |
| Marsden Rhodes Foster | *Boston, Ms.* | Messer 9 |
| Ertelle Elwell Franklin | *Tioga Center, N. Y.* | Pease House 14 |
| Charles Rumsey Freeman | *Milton, N. S.* | 33 Benevolent St. |
| Robert Jaquith Fuller | *E. Westm'rel'd, N.H.* | 112 George St. |
| David Louis Fultz | *Stanton, Va.* | Slater 20 |
| John Ashley Gammons | *New Bedford, Ms.* | Hope 26 |
| George Anthony Gaskill | *Worcester, Ms.* | University 49 |
| Charles Henry George 2d | *Providence* | University 43 |
| Howard Bowen Gorham | *Providence* | 236 Knight St |
| Russell Chaffee Graves | *Bennington, Vt.* | University 42 |
| Warren Earl Greene | *Providence* | University 48 |
| Arthur Moses Greenwood | *Ashburnham, Ms.* | University 19 |
| William Taylor Grinnell Jr. | *Providence* | University 25 |
| Arthur Leon Grover | *Portland, Me.* | Maxcy 203 |
| Walter Amer Guile 2d | *Providence* | University 45 |
| Wilford Jay Gunn | *Turner's Falls, Ms.* | 112 George St. |
| Edward Stockbridge Gushee | *Cambridge, Ms.* | Hope 40 |
| George Mackie Gustin | *Attleborough, Ms.* | Attleborough |
| Ephraim LeRoy Hart | *East Greenwich* | East Greenwich |
| Ratcliffe George Earle Hicks | *Providence* | Hope 38 |
| James Henry Higgins | *Pawtucket* | University 16 |
| Frank Edward Hopkins | *Essex Junction, Vt.* | 112 George St. |
| Arthur George Host | *Providence* | 12 Potters Ave. |
| Edward Feiling Hull | *Milbury, Ms.* | Maxcy 435 |
| Harry Curtis Hull | *Milbury, Ms.* | Maxcy 435 |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Ernest Morrill Hunt | *Lakeport, N. H.* | 21 Brown St. 8. |
| Richard Rallston Hunter | *Mamoroneck, N. Y.* | Slater 17 |
| Ralph Kingsley Hyde | *Providence* | 250 Charles St. |
| George Francis Jenks | *Shelburne Falls, Ms.* | Slater 2 |
| Luke Joseph Kavanaugh | *W. Springfield, Ms.* | Maxcy 313 |
| John Henry Kelaghan | *Pawtucket* | University 16 |
| Daniel Augustus Keough | *Millville, Ms.* | Maxcy 201 |
| Simon Sayles Lapham Jr. | *Providence* | Hope 22 |
| William Lauder | *So. Norwalk, Ct.* | Slater 20 |
| Walter Jabez Lord | *Worcester, Ms.* | Maxcy 206 |
| Charles Atwood Marsh | *Lynn, Ms.* | Maxcy 434 |
| Lester Benjamin Mathewson | *Providence* | 162 Holden St. |
| Clifford Elmore McGlauflin | *Mapleton, Me.* | Pease House A |
| George Alfred Mellen | *Lawrence, Ms.* | University 54 |
| Francis Dionysius Monahan | *Boston, Ms.* | 21 Brown St. 6 |
| George Winfield Morris | *Johnston* | University 34 |
| William Robert Morse | *Springfield, Ill.* | Slater 14 |
| Smith Lewis Multer | *Charlotteville, N. Y.* | Maxcy 430 |
| Dionysius Francis O'Brien | *No. Brookfield, Ms.* | 112 George St. |
| Charles Eri Osborne | *Morrisville, N. Y.* | Messer 4 |
| Bernard Wright Owen | *Portsmouth, N. H.* | Maxcy 316 |
| Fordyce Dexter Perkins | *Kennebunkport, Me.* | Hope 38 |
| John Pettibone | *Bristol, Ct.* | 112 George St. |
| Emory Lyon Place | *Providence* | University 13 |
| Lewis Tew Place | *Providence* | Slater 2 |
| William King Potter Jr. | *Edgewood* | Edgewood |
| Roland Cornell Powers | *Providence* | Slater 12 |
| Frank Albert Quimby | *Hills Grove* | Hope 14 |
| David Wallis Reeves Jr. | *Providence* | Maxcy 205 |
| Edward Augustus Robinson | *Providence* | Hope 1 |
| Albert Lewis Rodman | *Lafayette* | Hope 7 |
| Ernest Clinton Rowell | *N. Lawrence, N. Y.* | Hope 32 |
| William Edward Sarle | *Warwick* | Maxcy 211 |
| Woodbury John Scribner | *Epsom, N. H.* | Hope 32 |
| Edward Wadsworth Shead | *Eastport, Me.* | University 10 |
| George Herbert Sherwood | *Johnston* | Johnston |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Fred Hubbard Sibley | *West Sutton, Ms.* | 21 Brown St. 13 |
| William Adams Slade | *Providence* | Pease House 9 |
| Fred Andrew Smart | *S. Portland, Me.* | Howell 4 |
| Thomas Ellwood Steere | *Providence* | University 53 |
| Edward Delano Stewart | *Mystic, Ct.* | Hope 45 |
| Franklin Keith Taft | *Providence* | Slater 6 |
| Joseph Taylor | *Malton, Eng.* | University 28 |
| Millet Taylor Thompson | *Providence* | 204 Bowen St. |
| Andrew Samuel Thomson | *Alex'ndria Bay, N. Y.* | Hope 2 |
| George Hussey Tracy | *Providence* | 398 Washington St. |
| George Francis Troy | *Providence* | Maxcy 314 |
| Elihu Sanford Tuttle | *Bristol, Ct.* | University 46 |
| John Willis Upton | *Tyngsboro, Ms.* | University 57 |
| George Edward Walker | *Lawrence, Ms.* | 112 George St. |
| Stacy Reuben Warburton | *Pawtucket* | Hope 8 |
| Hezekiah Church Wardwell | *Bristol* | 33 Benevolent St. |
| J. Ralph Wellman | *Lawrence, Ms.* | University 54 |
| John Edmund Wells | *Providence* | 209 Montg'ery Av. |
| Borden Durfee Whiting | *Providence* | Slater 4 |
| Burtis Erwin Whittaker | *Sandy Creek, N. Y.* | 33 Benevolent St. |
| Edwin Evans Wightman | *Pawtucket* | Pawtucket |
| Howell George Wilcox | *Providence* | 513 No. Main St. |
| James Mickel Williams | *Waterville, N. Y.* | 33 Benevolent St. |
| William Eugene Winchester | *Providence* | 240 Camp St. |

## Sophomore Class

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Charles Bradbury Allen | *New London, N.H.* | Messer 13 |
| Charles Duke Atkins | *Springfield, Ms.* | Hope 27 |
| David Hastings Atwater | *Syracuse, N. Y.* | Slater 7 |
| Robert Betts Austin | *Brooklyn, N. Y.* | 101 Chestnut St. |
| John Edward Babbitt | *Bellows Falls, Vt.* | Maxcy 429 |
| Henry Duncan Bailey | *Carolina* | Maxcy 425 |
| Dwight Wood Baker | *Providence* | Maxcy 207 |
| Russell Wightman Baker | *Providence* | Slater 13 |
| William Edward Baker | *South Amboy, N. J.* | Hope 48 |
| Howard Clark Barber | *Hope Valley* | University 31 |
| Ralph Edwards Barker | *Taunton, Ms.* | Maxcy 210 |
| Harold Chester Barnefield | *Pawtucket* | Hope 2 |
| Walter Ives Bartlett | *Providence* | 32 Custom Ho. St. |
| George William Baylis | *Brooklyn, N. Y.* | 33 Benevolent St. |
| George Safford Beal | *Brockton, Ms.* | Hope 48 |
| Samuel Marsden Beale Jr. | *Pawtucket* | 32 Custom Ho. St. |
| Geo. Washington Bennett Jr. | *Providence* | Maxcy 430 |
| Joseph Hill Bigelow | *New York, N. Y.* | Slater 7 |
| Earnest Simons Bishop | *Providence* | 112 George St. |
| Albert Morton Blaisdell | *Bradford, N. H.* | University 17 |
| Arthur Horace Blanchard | *Providence* | Hope 1 |
| Edgar Lee Blanchard | *Pawtucket* | Pawtucket |
| Clarence Saunders Brigham | *Providence* | 238 Waterman St. |
| Howard Haines Brown | *Camden, N. J.* | Maxcy 431 |
| Harold Winifred Brown | *Tiverton* | Hope 5 |
| Lloyd Brown | *Wollaston, Ms.* | University 21 |
| Ralph Norman Brown | *Providence* | 8 Carr Court |
| Nathaniel Frank Bryant | *Newtonville, Ms.* | Hope 37 |
| Walter Boardman Bullen | *Newton Centre, Ms.* | Hope 8 |
| Paul Henry Burns | *No. Brookfield, Ms.* | Messer 7 |
| James Winthrop Campbell | *Biltmore, N. C.* | Slater 1 |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Neil Angus Campbell | *Phenix* | Hope 14 |
| John Thomas Casey | *Spencer, Ms.* | 112 George St. |
| Laurence Herbert Chace | *Orange, Ms.* | E. Providence |
| Merton Leland Chadsey | *Providence* | Hope 39 |
| George William Chaplin | *Pawtucket* | Maxcy 211 |
| Julian Clement Chase | *Pawtucket* | Maxcy 208 |
| James Harper Chase | *Whitman, Ms.* | University 32 |
| George Dudley Church | *Providence* | Slater 19 |
| Herbert Francis Clark | *Providence* | University 51 |
| Walter William Clark | *Worcester, Ms.* | Maxcy 204 |
| John Arthur Clough | *Worcester, Ms.* | Maxcy 202 |
| Francis Sessions Cole | *Providence* | Cole Ave. |
| Le Baron Carleton Colt | *Providence* | 105 Waterman St. |
| Arthur Metcalf Comee | *Woonsocket* | Hope 16 |
| William Pratt Comstock | *Providence* | University 18 |
| John Edward Connolly | *Providence* | 91 Parade |
| Charles Osmond Cooke | *Providence* | University 45 |
| Howard Lawrence Corthell | *New York, N. Y.* | Maxcy 321 |
| William Mather Cotton Jr. | *Providence* | University 19 |
| Walter Coates Cottrell | *Atlan. H'gl'ds, N.J.* | Maxcy 431 |
| Thomas Hart de Coudres | *McLean, N. Y.* | Hope 14 |
| Arthur Freeman Crowell | *Providence* | 255 Orms St. |
| Ira May Cushing | *Brookline, Ms.* | Maxcy 428 |
| Waldo Page Cutler | *Woburn, Ms.* | Maxcy 427 |
| Charles Bates Dana | *Santa Rosa, Cal.* | Slater 15 |
| George Warren David | *Falmouth, Ms.* | 112 George St. |
| Jacob David | *Seir Urmia, Persia* | Messer 14 |
| George Howard Davis | *Pawtucket* | 21 Brown St. 10 |
| Charles Thompson Dewey | *Gt. Barrington, Ms.* | Pease House 3 |
| Charles Howard Dow | *Providence* | 147 Doyle Ave. |
| Joseph William Dows Jr. | *Providence* | 44 Benevolent St. |
| William Joseph Duffy Jr. | *Bristol* | University 44 |
| Albert Edmund Dunn | *Houlton, Me.* | Pease House A |
| James Franklin Dyer | *Portland, Me.* | Maxcy 318 |
| Charles Daniel Easton | *Lakeport, N. H.* | 7 Wheaton St. |
| Joseph Wilcox Ellis | *New Bedford, Ms.* | Maxcy 313 |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Ralph Caleb Estes | *Winn, Me.* | 112 George St. |
| Bernard Capen Ewer | *No. Dighton, Ms.* | 21 Brown St. 10 |
| Nathaniel Trull Ewer | *Providence* | 180 Power St. |
| William Ellis Farnham | *East Providence* | 2 Sixth St. |
| Evan Dale Field | *Smithfield, Pa.* | 38 Benevolent St. |
| Arthur Herbert Fitz | *East Providence* | Hope 28 |
| Harry Cady Foster | *Providence* | 4 Lloyd St. |
| Eli Thompson Fryer | *Hightstown, N. J.* | Messer 11 |
| Caleb Allen Fuller | *Providence* | 277 Brook St. |
| Charles Israel Gates | *Canonchet* | Maxcy 426 |
| Nathaniel Howland Gifford | *Providence* | Hope 11 |
| Arthur Leonard Giles | *Providence* | 35 Forest St. |
| John Mason Glen Jr. | *Geneva* | Geneva |
| George Albert Goulding | *Providence* | 112 George St. |
| Thomas Jefferson Griffin Jr. | *Providence* | University 60 |
| Benjamin Ward Grim | *Bridgeton, N. J.* | Messer 5 |
| Clarence Herbert Guild Jr. | *Providence* | 20 Pitman St. |
| Paul Shelly Guilford | *ShelburneFalls,Ms.* | Pease House 10 |
| Gordon Dyer Hale | *Providence* | 24 Barnes St. |
| Dwight Hubbell Hall | *Bridgeport, Ct.* | Maxcy 425 |
| Francis Henry Hammill | *Bristol* | University 44 |
| Edward Shannon Hanson | *Taunton, Ms.* | Slater 2 |
| Guilford Clinton Hathaway | *Fall River, Ms.* | Hope 22 |
| Hugh Vincent Hazeltine | *Warren, Pa.* | University 47 |
| Ralph Everett Heath | *Edgewater, Ill.* | Slater 4 |
| Mellinger Edward Henry | *Irwin, Pa.* | Hope 28 |
| Harry Shreve Higgins | *Bordentown, N. J.* | 21 Brown St. 13 |
| Daniel Augustine Hill | *St. Louis, Mo.* | Slater 4 |
| Carlos Grout Hilliard | *Saxton's River, Vt.* | 33 Benevolent St. |
| Louis Rhodes Holmes | *Providence* | Hope 34 |
| Henry Wade Hopkins | *Essex Junction, Vt.* | 32 Custom Ho. St. |
| Oliver Chase Horsman | *Providence* | Maxcy 433 |
| Eddy Phillips Howard | *Providence* | 584 Cranston St. |
| Charles Arnold Hull | *Auburn* | University 10 |
| Albert Foster Hunt | *Fall River, Ms.* | 63 Angell St. |
| Irving Owen Hunt | *Providence* | Slater 8 |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Oliver Perry Hussey | *Nashua, N. H.* | Slater 18 |
| James Samuel Hyde | *Fall River, Ms.* | Maxcy 212. |
| Philip Clay Jack | *Gardiner, Me.* | 112 George St. |
| Almon Andrus Jaynes | *Norwich, N. Y.* | University 55 |
| Hiram Cleveland Jenks | *Pawtucket* | 252 High St. |
| Francis Severance Johnson | *San Jose, Cal.* | 47 Benevolent St. |
| Nels Johnson | *Rumford* | Rumford |
| William Jones | *Worcester, Ms.* | Maxcy 433 |
| John Packard Jordan | *Pawtucket* | 21 Brown St. 10 |
| Asa Edward Kelsey | *West'n Springs, Ill.* | Hope 13 |
| Herbert Harley Kennedy | *S. Framingham, Ms.* | University 19 |
| James Manning Kent | *Putnam, Ct.* | Slater 15 |
| Revere Warren Kent | *Pawtucket* | Hope 23 |
| William Franklin Koopman | *W. Roxbury, Ms.* | 47 Pitman St. |
| Wallace Rutherford Lane | *North Hadley, Ms.* | Hope 34 |
| Harry Benjamin Levis | *Philadelphia, Pa.* | 38 Benevolent St. |
| NathanWhitm'n Littlefield Jr. | *Pawtucket* | Pawtucket |
| Henry Morton Lovering Jr. | *Taunton, Ms.* | University 58 |
| Charles Walter Low | *Brockton, Ms.* | Slater 3 |
| Russell Crosby Lowell | *Providence* | 78 Bellevue Ave. |
| Antonio Mangano | *Hempstead, L. I.* | Messer 8 |
| Richard Martin | *Johnston* | Hope 28 |
| Eugene Waterman Mason Jr. | *Providence* | 149 Waterman St. |
| Byron Elmer Mathewson | *Manton* | Hope 8 |
| Joseph Jay McCaffrey | *Providence* | Maxcy 321 |
| Andrew Jackson McConnico | *Vaiden, Miss.* | Messer 5 |
| John Francis McEleney | *Riverside* | Riverside |
| Ernest William McKeen | *Pawtuxet* | Maxcy 203 |
| Frank Cowperthwait Millard | *Providence* | 32 Custom Ho. St. |
| Harold Tredenick Miller | *Providence* | 32 Baker Ave. |
| Lester Walton Millman | *Pawtucket* | Pawtucket |
| Frederic William Murphy | *Brockton, Ms.* | Hope 20 |
| Nathaniel Leo Niles | *Providence* | Hope 2 |
| Wilfred Benson Norris | *Somerset, Ms.* | 39 Parkis Ave. |
| John Benedict O'Donnell | *Providence* | 285 Public St. |
| Harald Webster Ostby | *Providence* | University 41 |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| George Warren Parker | *Concord, N. H.* | University 34 |
| Earnest Angell Parkis | *Slatersville* | Hope 19 |
| Richard Roy Perkins | *Hornellsville, N. Y.* | Howell 7 |
| Thurston Mason Phetteplace | *Providence* | Hope 11 |
| John Cooper Price | *Salem, N. J.* | Maxcy 319 |
| Freeman Putney Jr. | *Gloucester, Ms.* | 88 Meeting St. |
| George Hervy Raymond | *Winchendon, Ms.* | Hope 23 |
| Charles Cady Remington | *Providence* | Hope 20 |
| Willis Brown Richardson | *Providence* | Maxcy 320 |
| Frank Eddy Richmond 2d | *Providence* | Maxcy 322 |
| Charles Gilbert Robinson | *Mansfield, Ms.* | Hope 1 |
| Adam Franklin Ross | *Cortland, N. Y.* | Messer 15 |
| John Davis Sage | *Cincinnati, O.* | Slater 8 |
| Carl Fred Schipper | *Pekin, Ill.* | Maxcy 320 |
| Ibe John Schipper | *Pekin, Ill.* | Maxcy 320 |
| Raymond Alfred Schwegler | *Buffalo, N. Y.* | Messer 10 |
| Lion William Scudder | *E. Providence* | 26 Sutton St. |
| Laurence Moss Shaw | *Oaklawn* | Hope 4 |
| Albert Henry Sheffield | *Worcester, Ms.* | Maxcy 433 |
| Arthur Noyes Sheldon | *Providence* | Hope 1 |
| Fred Albert Simmons | *Adams, Ms.* | Hope 10 |
| Charles Henry Smith Jr. | *Providence* | Hope 17 |
| Rufus Albertson Soule Jr. | *New Bedford, Ms.* | University 40 |
| Henry Butler Stearns | *Manchester, N. H.* | Hope 46 |
| Edward Amos Stockwell | *Providence* | 20 Cooke St. |
| Ralph Ewing Storey | *McMinnville, Ore.* | Messer 12 |
| George William Sutcliffe | *Worcester, Ms.* | Maxcy 433 |
| Harrison Tarbell Swain | *Lowell, Ms.* | Hope 6 |
| Charles McCallum Teague | *Warren, Me.* | Pease House A |
| Louis Albion Thomas | *Providence* | 74 Benevolent St. |
| Edward Everett Thompson | *Fall River, Ms.* | River Point |
| Frederick Howard Tillinghast | *Providence* | University 19 |
| John Barnes Tingley | *Gloucester, Ms.* | 88 Meeting St. |
| George Burwell Utley | *Springfield, Ms.* | 7 Wheaton St. |
| Edgar Francis Viles | *Waltham, Ms.* | University 57 |
| Fred Alvah Vose | *Woonsocket* | Hope 18 |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Charles Albert Walsh | *Providence* | 293 Prairie Ave. |
| Raymer Balch Weeden | *Providence* | 158 Waterman St. |
| Harry Arthur Weeks | *Manchester N. H.* | 10 Hoppin Square |
| Frank Merriam Whipple | *Worcester Ms.* | Pease House 10 |
| Howard Hough Wilkinson | *Riverside* | University 41 |
| Alonzo Roger Williams | *Providence* | 10 Cushing St. |
| Harry Jay Williams | *Titusville, Pa.* | 63 Angell St. |
| Nelson Allen Wood | *New Bedford, Ms.* | Maxcy 427 |
| Walter Louis Wood | *Riverside* | Riverside |
| Frank Otis Woodruff | *Needham, Ms.* | 21 Brown St. 12 |
| Frank Ferris Woolley | *Pawtucket* | University 22 |
| William Watson Wyckoff | *Marshall's Cr'k, Pa.* | Pease House 22 |

## Freshman Class

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Leon Hunter Adams | *N. Brookfield, Ms.* | Messer 7 |
| Luther Bently Adams | *Providence* | 85 Power St. |
| William Truman Aldrich | *Providence* | 110 Benevolent St. |
| Walter William Allen | *Fabyan, N. H.* | Messer 16 |
| Clifford Spence Anderson | *Providence* | Maxcy 315 |
| Asa Warren Armington | *Newton Centre, Ms.* | Hope 24 |
| Herbert Hamlin Armington | *Providence* | 135 Courtland St. |
| Willard Barber Atwell | *Hebronville, Ms.* | Hebronville |
| Charles Gifford Babcock | *Drownville* | Hope 30 |
| Willard Henry Bacon | *Bellows Falls, Vt.* | Messer 16 |
| Charles Wheaton Barney | *New Bedford, Ms.* | Maxcy 323 |
| George Giles Bass | *Hyde Park, Ms.* | University 60 |
| Gilbert Newton Batchelder | *Newfane, Vt.* | Pease House 5 |
| Frederic Henry Bates | *Whitman, Ms.* | 382 New York Ave. |
| Andrew Hooton Blackiston | *Washington, D. C.* | 272 Benefit St. |
| Herman Melvin Blaisdell | *Bradford, N. H.* | University 17 |
| Stephen Wentworth Bourn | *Providence* | 222 Elmwood Ave. |
| Ernest Harriman Boynton | *Sewaren, N. J.* | Messer 1 |
| Michael Shelly Brennan | *Valley Falls* | Valley Falls |
| Walter Alexander Briggs | *Ashaway* | Maxcy 316 |
| John Smith Brown Jr. | *Providence* | Maxcy 432 |
| Ralph Standish Bryden | *Fairhaven, Ms.* | Maxcy 323 |
| Harris Howard Bucklin | *Providence* | University 53 |
| Frank Howard Burnham | *Central Falls* | Central Falls |
| Louis Millens Burt | *Providence* | University 51 |
| James Boise Bush | *New Orleans, La.* | Pease House 16 |
| Lawrence Vinton Calder | *Bayside* | University 48 |
| Moncrieffe Cameron | *Providence* | 141 Camp St. |
| Frank Walter Campbell | *Westm'nst'r West, Vt.* | 33 Benevolent St. |
| Harold Stearns Capron | *Providence* | Hope 27. |
| John Mowry Capron | *Stillwater* | Slater 13 |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Geo. Washington Carpenter Jr. | *East Providence* | East Providence |
| Joseph Thomas Cashman | *Providence* | 112 George St. |
| Joseph Duncan Chamberlain | *Hightstown, N. J.* | Messer 11 |
| John Lee Chapman Jr. | *Central Village, Ct.* | 136 Mitchell St. |
| James Wallace Chesbro | *Adams, Ms.* | Pawtucket |
| Harry Adams Clapp | *Boston, Ms.* | University 44 |
| Charles Wesley Clark | *Clarksdale, Miss.* | Pease House 8 |
| Edwin Schuyler Cobb | *Attleborough, Ms.* | Attleborough |
| Thomas Aloysius Coffey | *Providence* | 67 Bergen St. |
| Joseph Stearns Cole | *Morristown, N. J.* | Maxcy 322 |
| John Steere Colwell | *Providence* | 158 W. Clifford St. |
| George Saunders Cooper | *Providence* | 90 Congdon St. |
| Mendell Winthrop Crane | *East Providence* | 52 Waterman Ave. |
| Richard Samuel Croker | *New York, N. Y.* | 41 Angell St. |
| Herbert Richard Cross | *Providence* | Slater 19 |
| Claude Burton Dakin | *New Berlin, N. Y.* | University 60 |
| Walter Hayes Detmers | *Buffalo, N. Y.* | 85 Power St. |
| Roscoe Morton Dexter | *Central Falls* | Hope 25 |
| Dana Fletcher Downing | *Haverhill, Ms.* | Pease House 4. |
| George Edward Downing | *Providence* | 16 Comstock Ave. |
| Joseph Warren Downs | *S. Waterboro, Me.* | 21 Brown St. 11 |
| Foster Robbins Dows | *Providence* | 44 Benevolent St. |
| James Aloysius Dunne | *Brooklyn, N. Y.* | Hope 35 |
| Thomas Joseph Dunne | *Brooklyn, N. Y.* | Hope 35 |
| Frank Horace Durgin | *Boscawen, N. H.* | Hope 27 |
| Ernest Arey Dyer | *Boston, Ms.* | Howell 2 |
| Frank Birch Easton | *Lakeport, N. H.* | 7 Wheaton St. |
| Leland Leslie Eaton | *Bradford, N. H.* | University 13 |
| Charles Ernest Ewing | *Troy, N. Y.* | Maxcy 203 |
| Leo Francis Farrell | *Pawtucket* | Pawtucket |
| Fred Tarbel Field | *N. Springfield, Vt.* | 7 Wheaton St. |
| Austin Hervey Fitz | *Natick, Ms.* | 21 Brown St. 10 |
| Kenneth Ripley Forbes | *Newton Centre, Ms.* | Hope 8 |
| William Dunlap Forbes | *Providence* | 132 Jenkins St. |
| Albert Jonathan Frohock | *Springfield, Ms.* | Pease House 7 |
| Frederick Arthur Galvin | *Spencer, Ms.* | Maxcy 314 |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Harry Irving Gaskill | *Woonsocket* | Hope 33 |
| James Phillips Gaskill | *Woonsocket* | Hope 33 |
| Ernest Hubbell Gilbert | *Roxbury, Ms.* | 7 Wheaton St. |
| James Bruce Gilman | *Lowell, Ms.* | Howell 5 |
| Harry William Hall | *Brooklyn, N. Y.* | 41 Angell St. |
| Frank Thurston Hallett | *Providence* | 283 George St. |
| Homer Warren Hanscom | *Haverhill, Ms.* | Pease House 4 |
| Ralph Frederick Hanson | *Roxbury, Ms.* | Slater 19 |
| James Francis Hennessey | *W. Bridgewater Ms.* | 7 Wheaton St. |
| Edward Herbert | *Fall River, Ms.* | Maxcy 212 |
| Lothrop Davis Higgins | *Westboro, Ms.* | Pease House 20 |
| William Leonard Hill | *Warsaw, Ill.* | Pease House 13 |
| John Lawrence Hood | *Pawtucket* | Hope 25 |
| Thomas Hope | *Augusta, Ga.* | Hope 45 |
| Horace Mason Hovey | *Groton, Ms.* | 151 Waterman St. |
| Daniel Howland | *Hope* | Hope 21 |
| Ray Osgood Hughes | *Saxton's River, Vt.* | 7 Wheaton St. |
| John Richard Humphreys | *Paterson, N. J.* | Pease House 22 |
| George Llewellyn Hunt, | *Attleboro, Ms.* | Attleboro, Ms. |
| Willifred Ellsworth Hunt | *N. Ch'rlestown, N. H.* | 7 Wheaton St. |
| John Wesley Huse | *Laconia, N. H.* | 7 Wheaton St. |
| Frederic Vinal Hussey | *Franklin, Ms.* | Slater 14 |
| Frank Hussey Jackson Jr. | *Providence* | Maxcy 436 |
| George Silas James | *Hills Grove* | Maxcy 436 |
| John P. Johnson | *Rumford* | Rumford |
| Melvin Clermont Johnson | *Virgil, N. Y.* | Pease House 11 |
| Myron Daniel Lapham | *Providence* | 15 Richmond Sq. |
| Waldo Gifford Leland | *Newt'n Lw'r F'ls, Ms.* | Hope 30 |
| Clarence Brown Lester | *Johnston* | Maxcy 315 |
| George Edwin Marble | *Worcester, Ms.* | Maxcy 201 |
| George Marsden | *New Bedford, Ms.* | Central Falls |
| Harold Burnham Maryott | *Providence* | 59 Dover St. |
| Howard Harris Mason | *Providence* | Hope 11 |
| Harold Lee McAuslan | *Providence* | Slater 16 |
| Philip John McQuaid | *Providence* | 31 Quaid St. |
| Walter Howard Mitchell | *Winchendon, Ms.* | Hope 23 |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Charles Bartlett Moseley | *Needham, Ms.* | University 59 |
| Norman Allen Moss | *Providence* | Maxcy 317 |
| Seth Augustine Moulton | *Worcester, Ms.* | University 33 |
| Harry Warren Mumford | *Starrucca, Pa.* | 7 Wheaton St. |
| Nathaniel Willis Myrick | *Spencer, Ms.* | Pease House 12 |
| Clarence Elnathan Norris | *Worcester, Ms.* | University 59 |
| Edward Arthur Northrop | *Field's Point* | 405 Potter's Ave. |
| Arthur Edwin Norton | *Portland, Me.* | 21 Brown St. 11 |
| John Francis O'Gara | *Spencer, Ms.* | Maxcy 314 |
| Leonard Merrick Patton | *Trenton, N. Y.* | 7 Wheaton St. |
| Joseph Leishman Peacock | *Pawtucket* | Maxcy 206 |
| Jonathan Claire Peaslee | *Ashland, N. H.* | 7 Wheaton St. |
| Maurice Vorhies Perkins | *Coffeyville, Ka.* | Slater 14 |
| Arthur Llewllyn Perry | *Westerly* | Maxcy 426 |
| Vernon Sirvilian Phillips | *Milwaukee, Wis.* | 66 Meeting St. |
| Benjamin Obear Pillsbury | *Concord, N. H.* | University 51 |
| Harry Kay Poole | *Taunton, Ms.* | 143 Prairie Ave. |
| Charles Huntington Porter | *Providence* | Slater 19 |
| Henry Sheldon Pratt | *Lawrence, Ms.* | 112 George St. |
| Arthur Osborn Pritchard | *Newport* | Messer 3 |
| Lemuel Charles Raiford | *Baltimore, Md.* | Hebronville, Ms. |
| Lyman Alpheus Randall | *Loo, O.* | 112 George St. |
| Archibald Tennant Reoch | *Phenix* | Hope 6 |
| Fordyce Thomas Reynolds | *Hadley, Ms.* | Hope 34 |
| Charles Germane Richardson | *Morrisville, N. Y.* | Messer 3 |
| George Weld Rickard | *Woonsocket* | Maxcy 436 |
| Arthur Flewellyn Roberts | *Hornellsville, N. Y.* | Howell 7 |
| Lawrence Warwick Robinson | *Providence* | Hope 26 |
| Robert Cornelius Robinson | *Providence* | Hope 10 |
| Charles Pickett Roundy | *Beverly, Ms.* | Hope 4 |
| George Edward Schilling | *Cumberland, Md.* | Hope 28 |
| Albert Lyon Scott | *Winslow, Ark.* | Messer 2 |
| Arthur Langford Slocum | *East Providence* | Slater 7 |
| Earl Augustine Smith | *Lowell, Ms.* | Pease House 14 |
| George Warner Smith | *Nayatt Point* | Nayatt Point |
| Milton Baker Smith | *Hornellsville, N. Y.* | Howell 7 |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Orlando Raymond Smith Jr. | *Westerly* | Maxcy 426 |
| Walter Smith | *Lawrence, Ms.* | 112 George St. |
| Henry Willis Stanley | *Pawtucket* | Hope 23 |
| Charles Kirtland Stillman | *Mystic, Ct.* | 276 Benefit St. |
| Jesse Floyd Stinard | *Harford, N. Y.* | Pease House 11 |
| Ralph William Stoddard | *Brattleboro, Vt.* | Pease House 5 |
| Harry Grove Sumner | *Norwich, N. Y.* | University 55 |
| Howard Arnold Swallow | *Darville, Ill.* | 7 Wheaton St. |
| Allan Remington Thatcher | *Middleboro, Ms.* | Slater 12 |
| David Edmund Truesdell | *Suncook, N. H.* | University 27 |
| Nathan Albert Tufts | *Fitchburg, Ms.* | Hope 24 |
| Michael Joseph Twomey | *Norwich, Ct.* | Messer 8 |
| Arthur Wakefield | *Mount Pleasant, Pa.* | Pease House 3 |
| James Warren | *Providence* | 131 Waterman St. |
| Frederick Elmer Webb | *Arlington* | Arlington |
| Daniel Oscar Webster | *Lakeport, N. H.* | 7 Wheaton St. |
| Clinton Chase White | *Worcester, Ms.* | Hope 42 |
| Merwin White | *Providence* | 150 George St. |
| Ray Lester Whitney | *Winchendon, Ms.* | Hope 25 |
| Frederick Wallace Wiggins | *Warsaw, N. Y.* | Washington |
| Edward Shepard Wilkinson Jr. | *North Adams, Ms.* | University 43 |
| George Curtis Wing Jr. | *Auburn, Me.* | Slater 17 |
| Howland Wood | *Providence* | University 41 |
| William Olney Wood | *East Providence* | East Providence |
| Arthur Llewllyn Wright | *West Newton, Ms.* | Messer 2 |
| John Albion Young | *Providence* | Hope 18 |

## Special Students

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Lester Franklin Albro | *Middletown* | 185 Williams St. |
| John Francis Bannon | *Central Falls* | Central Falls |
| Thomas Jefferson Brady | *New Bedford, Ms.* | Pease House 9 |
| Urban Charles Brewer | *Danville, Ind.* | Howell 10 |
| Carleton Ashburg Burgess | *Ashland, Ms.* | 38 Central St. |
| Edwin Arnold Bush 2d | *Providence* | University 51 |
| Frank Lippitt Cady | *Providence* | University 41 |
| George F. Cleveland | *Oneonta, N. Y.* | 7 Wheaton St. |
| Claude Louis Faye Duhain | *Providence* | 464 Westminster St. |
| Charles Kentworthy Francis | *Richmond, Va.* | 506 Smith St. |
| Victor Frazee | *Providence* | 98 Prospect St. |
| Arthur Endicott Fuller, | *Danvers, Ms.* | Messer 13 |
| Owen Francis Gallagher | *Providence* | 206 Oxford St. |
| Fayette Gates | *Presque Isle, Me.* | 112 George St. |
| Leon Arvine Goodale | *West Boylston, Ms.* | 127 Angell St. |
| Eric Hastings Green | *Providence* | 14 John St. |
| Addison Garthwaite Hanan | *Brooklyn, N. Y.* | Hope 41 |
| Daniel Henry Houlihan | *Pawtucket* | Pawtucket |
| Luther Taylor Jackman | *Brooklyn, N. Y.* | 33 Benevolent St. |
| Austin Herbert Keyes | *Auburn* | Auburn |
| Walter Dunn Kilvert | *Chillicothe, O.* | 27 Westminster St. |
| William Walter Kirby | *Providence* | 152 Ocean St. |
| Jerome Henry Knowles | *Bar Harbor, Me.* | University 28 |
| Charles Sumner Lloyd | *Sandwich, Ms.* | Maxcy 207 |
| Charles Peter Lynch | *Providence* | 260 Point St. |
| Robert Kerr Lyons | *W. Hamp'n B'h, N. Y.* | University 10 |
| William Mackintosh McNair | *Providence* | 234 Orms St. |
| William Daniel Mangam | *Brooklyn, N. Y.* | Hope 41 |
| Charles McCarthy | *Brockton, Ms.* | Maxcy 430 |
| Harry Sumner McCready | *Providence* | 343 Thayer St. |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Charles Edwin Paine | *Providence* | 26 Oak St. |
| Lawrence Gilpin Painter | *Vale, Md.* | 66 John St. |
| George Joseph Patchen | *Brooklyn, N. Y.* | 41 Angell St. |
| Jesse Stetson Pevear | *Lynn, Ms.* | Maxcy 318 |
| George Winslow Plummer | *Providence* | 28 Maple St. |
| Frederick Huntington Potter | *Providence* | 517 Washington St. |
| Byron Johnson Rees | *Providence* | 12 Jenks St. |
| Frederick Clarence Richardson | *Passaic, N. J.* | 33 Benevolent St. |
| Arthur Wesley Rockwood | *Bennington, Vt.* | Slater 12 |
| Otis White Sedgwick | *Bondsville, Ms.* | University 45 |
| Henry Travers Summersgill | *Brooklyn, N. Y.* | Hope 44 |
| Ernest DeWitt Talbot | *Providence* | 67 Congdon St. |
| William Ashton Thompson | *Providence* | 100 Doyle Ave. |
| Harry Edwin Waterhouse | *Pascoag* | Maxcy 319 |

## Women's College

### Senior Class

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Josephine Angell Beane | *Johnston* | Johnston |
| Martha Shepard Briggs | *Attleborough, Ms.* | Attleborough |
| Louise Mary Jane Brough | *Providence* | 13 Pomona Ave. |
| Edith Maria Brown | *Providence* | 25 Pitman St. |
| Mary Arnold Brownell | *Providence* | 73 Prospect St. |
| Florence Potter Case | *Providence* | 101 Somerset St. |
| Nellie Francis Cooke | *Providence* | 18 Maple St. |
| Edna Frances Davis | *Central Falls* | Central Falls |
| Ruth Story Devereux | *Manton* | Manton |
| Alice Louise Gardner | *Warren* | 106 George St. |
| Clara Angela Gomberg | *Providence* | 214 Benefit St. |
| Bertha Beatrice Grant | *Providence* | 40 Providence St. |
| Ida Ellis Hawkins | *East Greenwich* | East Greenwich |
| Minnie Hannah Hough | *Lonsdale* | Lonsdale |
| Sadie Emma McCready | *Providence* | 343 Thayer St. |
| Winifred Manatt | *Providence* | 100 Bowen St. |
| Sarah Ethelyn Merrill | *Central Falls* | Central Falls |
| Anna Louise Metcalf | *West Upton, Ms.* | 38 Congdon St. |
| Sarah Mabel Osborn | *Warren* | Warren |
| Mabel Louise Potter | *Fairhaven, Ms.* | 280 Waterman St. |
| Linda Richardson | *N. Attleborough, Ms.* | No. Attleborough |
| Eda May Round | *Providence* | 139 Superior St. |
| Ruth Smith Roundy | *Beverly Ms.* | 325 Gano St. |
| Jessie Goodwin Tiffany | *Barrington* | Barrington Centre |
| Caroline Luella Tuthill | *Palmer, Ms.* | 38 Congdon St. |
| Mary Drew Vaughan | *Providence* | 22 E. Manning St. |
| Clara Whitehead | *Providence* | 39 Kenyon St. |

## Junior Class

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Adelaide Harris Arnold | *Pawtucket* | 44 Clay St. |
| Edna Bigelow Arnold | *Pawtucket* | 47 Broad St. |
| Lucy Anna Bates | *Providence* | 138 Messer St. |
| Myra Hibbard Butler | *Woodsville, N. H.* | 87 Congdon St. |
| Anne Walcott Carpenter | *Providence* | 95 Benevolent St. |
| Kathrena Lauretta Cawley | *East Providence* | East Providence |
| Virginia Morgan Crumb | *Riverside* | Riverside |
| Norma Garvin | *Lonsdale* | Lonsdale |
| Phebe Rushmore Gifford | *Providence* | 32 Larch St. |
| Elizabeth Christina Grant | *Providence* | 85 Lippitt St. |
| Emma Hindley | *Valley Falls* | Valley Falls |
| Grace Elizabeth Inman | *Providence* | 1632 Chalkst'ne Av. |
| Ethel Clare Jameson | *East Providence* | East Providence |
| Emily Gardner Munro | *Bristol* | Bristol |
| Katherine Marie Neuschuez | *N. Attleborough, Ms.* | No. Attleborough |
| Harriet Elsie Spooner | *Barre, Mass.* | 122 Fountain St. |
| Edith Augusta Thompson | *Providence* | 360 Willard Ave. |
| Ethel Ella Tower | *Providence* | 397 Pine St. |
| Ida Evelyn Waite | *Providence* | 14 Parkis Ave. |
| Margaret Lillian Wesley | *Providence* | 161 Smith St. |
| Amy Earl White | *Attleborough, Ms.* | Attleborough |

## Sophomore Class

| | | |
|---|---|---|
| Florence Bartlett | *Providence* | 32 Benevolent St. |
| Henrietta Griswold Benson | *Providence* | 123 Chester Ave. |
| Caroline Louise Briggs | *Attleborough, Ms.* | Attleborough |
| Harriet Irving Brooks | *Providence* | 137 Grove St. |
| Alverda Laura Brown | *Johnston* | Johnston |
| Ethel Clariet Brownell | *Johnston* | Johnston |
| Sarah Elecia Bunnell | *Bristol, Ct.* | 325 Gano St. |
| Julia Marguerite Cawley | *East Providence* | East Providence |
| Agnes Elizabeth Clark | *Providence* | 9 Providence St. |
| Sarah Hale Colvin | *Riverpoint* | Riverpoint |
| Eva Elise Curtiss | *Bristol, Ct.* | 325 Gano St. |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Helen Maude Eddy | *Greenville* | East Providence |
| Adelaide Augusta Esten | *Providence* | 382 Pine St. |
| Lillian Estelle Everett | *Providence* | 36 Locust St. |
| Ida May Fiske | *Providence* | 32 Carleton St. |
| Emeline Eddy Fitz | *Burrillville* | Burrillville |
| Anna Liguoria Gray | *Providence* | 120 Broad St. |
| Elizabeth Richards Holbrook | *Attleborough, Ms.* | Attleborough |
| Evelyn Olive Johnson | *East Providence* | East Providence |
| Winnifred Belle King | *Winsted, Ct.* | 325 Gano St. |
| Anne May Larry | *Providence* | 169 Congdon St. |
| Mary Beecher Leonard | *Providence* | 156 Broad St. |
| Elsie Lilla Lewis | *Attleborough, Ms.* | Attleborough |
| Mary Ann McQuaid | *Providence* | 31 Quaid St. |
| Lillian Gertrude McQuillin | *Pawtucket* | 87 Central Ave. |
| Gertrude Edna Millard | *Providence* | 123 Lester St. |
| Josie Star Miner | *East Providence* | East Providence |
| Susie Brigham Morse | *Attleborough, Ms.* | Attleborough |
| Mary Abby Frink Randall | *Providence* | 83 Beaufort St. |
| Sarah Louise Simmons | *Providence* | 74 Armstrong Ave. |
| Alice Maude Tallman | *Fairhaven, Ms.* | 87 Congdon St. |
| Clara Belden Tingley | *Gloucester, Ms.* | 87 Congdon St. |
| Bertha Tucker | *Pawtucket* | Pawtucket |
| Harriet Barrows Utter | *Providence* | 172 Pleasant St. |
| Mary Greene Wilbur | *Providence* | 266 Broad St. |
| Annie Louise Williams | *Brattleboro, Vt.* | 79 Almy St. |

## Freshman Class

| | | |
|---|---|---|
| Alice May Ballou | *Providence* | 61 Congdon St. |
| Clare Reynolds Bass | *Windham, Ct.* | 12 Providence St. |
| Ruth Edna Batchelder | *Centerville* | Centerville |
| Helen Louise Bliss | *East Providence* | East Providence |
| Frances Estella Brainard | *Providence* | 134 Bridgham St. |
| Anne Carrique Buffington | *Providence* | 188 Broad St. |
| Emily Estelle Campbell | *Providence* | 221 Pavilion Ave. |
| Blanche Elizabeth Carpenter | *Attleborough, Ms.* | Attleborough |
| Lydia Gardiner Chace | *Providence* | 129 Benefit St. |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Edith Ray Clapp | *Providence* | 133 Smith St. |
| Mabel Ingraham Cobb | *Attleborough, Ms.* | Attleborough |
| Mary Elizabeth Collins | *Westerly* | Westerly |
| Daisy Frances Coulters | *Arlington* | Arlington |
| Edith Dolly Davison | *Pawtucket* | 41 Summer St. |
| Elizabeth Wickes Gardner | *Providence* | 22 Barnes St. |
| Pearl Belle Grant | *Providence* | 40 Providence St. |
| Beulah May Hahn | *Providence* | 75 Cranston St. |
| Mary Prentice Hill | *Rumford* | Rumford |
| Mabel Snow Levalley | *Providence* | 124 Wesleyan Ave. |
| Loretta Ludwig | *Providence* | 167 Prairie Ave. |
| Susan Gertrude Mackie | *Centerdale* | Centerdale |
| Minnie Catherine Mahy | *Providence* | Fourth St. |
| Adrienne Mathews | *Providence* | 131 Ocean St. |
| Nellie May Potter | *Lakewood* | Lakewood |
| Josephine Martha Scholfield | *Providence* | 425 Public St. |
| Florence Carter Seagrave | *Slatersville* | Slatersville |
| Ethel Breed Sherman | *Warren* | Warren |
| George Lillian Smith | *Providence* | 25 Lenox Ave. |
| Mary Randall Stark | *Providence* | 41 Chapin Ave. |
| Helena Russell Stewart | *No. Easton, Ms.* | 65 Meeting St. |
| Lura Cooper Stone | *Pawtucket* | Pawtucket |
| Eulalia Jeannette Towne | *Howard* | Howard |
| Edna Isabel Warner | *Bristol, Ct.* | 114 Taber Ave. |
| Martha Wilbur Watt | *Providence* | 207 Atlantic Ave. |
| Helen Bowen Waterman | *Providence* | 70 Cady Ave. |
| Ethel Gertrude Westcott | *Providence* | 96 Chapin Ave. |
| Mabel Gardner White | *Providence* | 114 Messer St. |
| Nettie Estella White | *Arlington* | Arlington |

SELECT COURSE

| | | |
|---|---|---|
| Mary Lizzie Aldrich | *Providence* | 26 Cabot St. |
| Dora Augusta Barber | *Providence* | 42 Angell St. |
| Adelaide Schiffer Bauer | *Providence* | 61 Parade St. |
| Edith Katherine Bauer | *Providence* | 61 Parade St. |
| Mollie Brennan | *Providence* | 78 Congdon St. |
| Nellie Bunker | *Providence* | 54 Willow St. |

| NAME | RESIDENCE | ROOM |
|---|---|---|
| Ruth Walworth Bunker | *Providence* | 54 Willow St. |
| Irene Louise Calef | *Manton* | Manton |
| Margaret Lillie Chace | *Valley Falls* | Valley Falls |
| Geneva Allen Cobb | *Providence* | 334 Smith St. |
| Eleanor Buffum Congdon | *Providence* | 87 Cooke St. |
| Lucy Evangeline Cyr | *Providence* | 22 Arch St. |
| Mary Isabel Emerson | *East Providence* | East Providence |
| Gertrude Gardner | *Swansea Centre* | Swansea Centre |
| Florence Garvin | *Lonsdale* | Lonsdale |
| Helen Louise Given | *Auburn* | Auburn |
| Margaret Noble Goodwin | *Providence* | 87 Congdon St. |
| Mary Louise Gregory | *Wickford* | 253 Broadway |
| Stella Josephine Hartshorn | *Providence* | 189 Wayland Ave. |
| Evangeline Larry | *Providence* | 169 Congdon St. |
| Eva Jane Latham | *Providence* | 87 Weybosset St. |
| Harriet Lusannah Latham | *Providence* | 87 Weybosset St. |
| Grace Frances Leonard | *Providence* | 156 Broad St. |
| Ellen Maguire | *Providence* | 118 Spring St. |
| Sara Imbrie Manatt | *Providence* | 100 Bowen St. |
| Nellie Florence Munroe | *East Providence* | East Providence |
| Laura Frances Parker | *Providence* | 325 Gano St. |
| Clara Imogene Peirce | *Providence* | 27 Hammond St |
| Margaret Weston Richards | *Providence* | 144 Benefit St. |
| Mabel Temple | *Providence* | 49 George St. |
| Maude Helen Tower | *Providence* | 397 Pine St. |
| Clara Valois | *Providence* | 32 Oak St. |
| Inez Susan Whipple | *Providence* | Normal School |
| Jessie Wilson | *East Providence* | East Providence |
| Martha Jane Wilson | *Providence* | 151 Ocean St. |

## SUMMARY

| | |
|---|---|
| Seniors | 27 |
| Juniors | 21 |
| Sophomores | 36 |
| Freshmen | 38 |
| Select Course | 35 |
| Total | 157 |

## Summary

| | | | |
|---|---|---|---|
| Graduates | 110 | Freshmen | 165 |
| Seniors | 119 | Select Course | 44 |
| Juniors | 126 | Women's College | 157 |
| Sophomores | 187 | | |
| Total | | | 908 |

## Summary by States

| | | | |
|---|---|---|---|
| Rhode Island | 491 | Missouri | 2 |
| Massachusetts | 190 | Oregon | 2 |
| New York | 54 | Mississippi | 2 |
| New Hampshire | 33 | Nova Scotia | 2 |
| Vermont | 24 | North Carolina | 1 |
| Maine | 22 | Louisiana | 1 |
| Connecticut | 20 | Kansas | 1 |
| New Jersey | 16 | Arkansas | 1 |
| Pennsylvania | 10 | Wisconsin | 1 |
| Ohio | 7 | Indiana | 1 |
| Illinois | 7 | District of Columbia | 1 |
| California | 5 | England | 1 |
| Tennessee | 3 | India | 1 |
| Virginia | 3 | Persia | 1 |
| Maryland | 3 | | |
| Georgia | 2 | Total | 908 |

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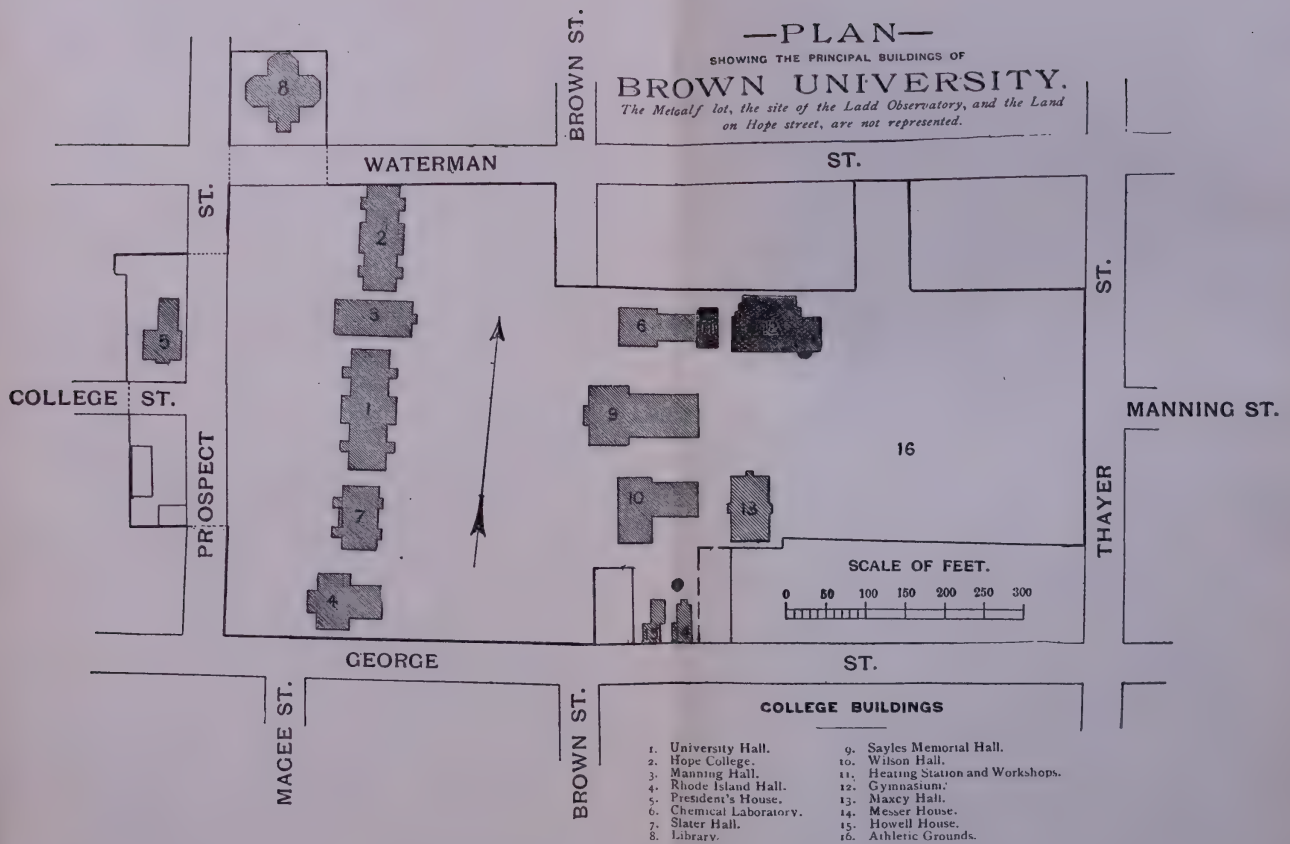
—PLAN—
SHOWING THE PRINCIPAL BUILDINGS OF
BROWN UNIVERSITY.
The Metcalf lot, the site of the Ladd Observatory, and the Land on Hope street, are not represented.
BROWN ST.
WATERMAN
ST.
ST.
COLLEGE ST.
PROSPECT
ST.
MANNING ST.
THAYER
SCALE OF FEET.
0 50 100 150 200 250 300
GEORGE
ST.
MACEE ST.
BROWN ST.
COLLEGE BUILDINGS
1. University Hall.
2. Hope College.
3. Manning Hall.
4. Rhode Island Hall.
5. President's House.
6. Chemical Laboratory.
7. Slater Hall.
8. Library.
9. Sayles Memorial Hall.
10. Wilson Hall.
11. Heating Station and Workshops.
12. Gymnasium.
13. Maxcy Hall.
14. Messer House.
15. Howell House.
16. Athletic Grounds.

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